



Koppers Inc.

Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

June 2, 2005

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

**Discharge Monitoring Report** 

Dear Mr. Zais,

Attached please find subject report for the month of May 2005.

During the month, we had two regular discharges of our 220,000-gallon storage tanks. The first "slug" discharge of the 220,000 gallons was pumped over two days May 11<sup>th</sup> and 12<sup>th</sup> and the second was pumped over two days May 25<sup>th</sup> and 26th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: <a href="mailto:turnertj@koppers.com">turnertj@koppers.com</a>

Sincerely,	Environmentar Veparlana Document Control
T. J. Turner General Foreman  CC: M. Pronold, City of Portland, T. Self, KII	business of the control of the contr
B. Bauman, KII	Olygon Commence of the Annie of

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	Tim Traci	Linda		
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME

| Variable |

Koppers Industries, Inc.

ADDRESS

7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY LOCATION

Northwest Terminal Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NFDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (77-19)

MONITORING PERIOD

ta

OR-000077-9 PERMIT NUMBER

FROM 05 05 01

YEAR MO DAY

(20-21) (22-23) (24-25)

001 DISCHARGE NUMBER

YEAR MO DAY

05 05 31

(26-27) (28-29) (30-31)

47430 101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved. OMB No. 2040-0004

Approval expires 05-31-98

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

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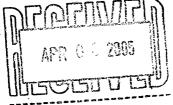
Carbon Materials and Chemicals 7540 NW Saint Helens Road Portland, OR 97210-3663 Tel 503 286 3681 Fax 503 285 2831

Koppers Inc.

www.koppers.com

FAX NO. :5032852831





April 4, 2005

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of March 2005.

During the month, we had one regular discharge of our 220,000-gallon storage tanks. There was one "slug" discharge of the 220,000 gallons, which was pumped over three days March 29<sup>th</sup>, 30<sup>th</sup> and 31st. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnerti@koppers.com

Sincerely,	Environ tentas Daparingout Decembert Consent
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General Foreman	AND THE PERSON AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT ASSESS
CC: M. Pronold, City of Portland, I T. Self, KII	Environmental Services stand
B. Bauman, KII	Copyle: Maly Healter
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NAME

PERMITTEE NAME/ADDRESS thickede Fective Named oceation in Different)

Koppers Industries, Inc.

EPA Form 3320-1 (10-96)

Approval expires 05-31-98 OR-000077-9 വാ 47430 **ADDRESS** 7540 NW Saint Helens Road DISCHARGE HUMBER PERMIT NUMBER Portland, OR, 97210-3663 101642 MONITORING PERIOD ·Check bere if No Discharge FACILITY YEAR MO DAY YEAR MO DAY Northwest Terminal 05 03 01 το 05 LOCATION 03| 31 FROM NOTE: Read Instructions before completing this light Multnomah County (20-21) (22-23) (24-25) (28-27) (28-29) (30-31) AVALYSIS (64-06) QUANTITY OR LOADING QUALITY OR CONCENTRATION (4 Card Only) (3 Cerd Only) SAMPLE PARAMETER (40-53) (54-81) (48-53) (54-81) (38-45) (32-37) MAXIMIM UNITS (62-63) AVERAGE AVERAGE MAXIMIRA UNITS MINIMUM (09-70) SAMPLE FLOW CALC 0 MEASUREMENT GPD SER COVER LETTER PERMIT REQUIREMENT SAMPLE 11.6 11.8 12.0 0 GRAB MEASUREMENT 0 TEMPERATURE C PERMIT N/A REQUIREMENT N/A N/A SAMPLE 7.0 6.9 6.8 **ICRAB** 0 MEASUREMENT SU PH PERMIT 9.0 6.0 REQUIREMENT SAMPLE 5.7 5.7 5.7 Õ CRAB MEASUREMENT mg/L OIL & GREASE PERMIT REQUIREMENT 0.0 10.0 15.0 SAMPLE <0.05 <0.05 < 0.05 1/30 GRAB HEASUREMENT mg/L **PHENOLS** PERMIT 0.0 0:5 0.7 REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT RECUIREMENT I CERTEY UNDER PENALTY OF LINE THAT THIS DOCUMENT AND ALLATTACHMENTS WE'RE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CAMPED PERSONNER PROPERTY OF ALLER AND SEMILATE IN EMPORTATION BUILDING THAT CAMPED ON MY INCLINE YOU THE PERSONN OR PERSONS FIND MAMAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSED IN FOR CATHESINGS FIRE MY ADMINION, THE MY ORDINATION SUBMITTED IN, TO THE SIGHT OF MY INCOMMENDE AND SELEST THEE, ACCUMANTE, AND COMMENTE AND SHARE AND COMMENTE. AND COMMENTE OF ALL STATEMENT OF ALSE PROPONATION INCLINUIS THAT THESE AND BONDANT FOR ATTEMEST ON BUBBLIST THAT THESE AND BONDANT FOR ATTEMEST ON BUBBLIST THAT THESE MY ORDINATIONS, BEET IS USE, I SHAP AND STATEMEST OF SUBMITTION OF ALSE PROPONATION. NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE . Turner 503, 286-3681 05 04 04 R. D. Collins SIGNATURE OF PRINCIPAL EXECUTIVE TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT NUMBER YEAR MO :KOFPERS COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM IMPDERS

DISCHARGE MONITORING REPORT (DMR)

(2.1B)

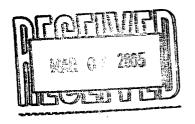
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CC: M. Propold, City of Portland; T. Self, KII; B. Bauman, KII

1 OF 1

DNB No. 2040-0004

FAX NO. :5032852831





Koppers Inc.
Carbon Mate

Carbon Materials and Chemicals

7540 NW Saint Helens Road .
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

March 2, 2005

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of February 2005.

During the month, we had one regular discharge of our 220,000-gallon storage tanks. There was one "slug" discharge of the 220,000 gallons, which was pumped over two days February 15<sup>th</sup> and 16th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnerti@koppers.com

(2) 49389

Marien Constant

Marie .

wiel:

Sincerely,

T. J. Turner

General Foreman

CC. M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

February 1, 2005

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

B. Bauman, KII

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of January 2005, including the 1st quarter PAH test results.

For the month, we had one regular discharge of our 220,000-gallon storage tanks, for the month. The one "slug" discharge of the 220,000 gallons was pumped over two days January 18<sup>th</sup> and 19th. There were no excursions during the month.

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Koppers003017

Approval expires 05-31-98 OR-000077-9 001 47430 ADDRESS 7540 NW Saint Helens Road PERMIT NUMBER DISCHARGE NUMBER Portland, OR. 97210-3663 101642 MONITORING PERIOD ☐Check here If No Discharge YEAR I MO DAY YEAR MO DAY FACILITY Northwest Terminal FROM 05 UI UI το U5 UI 31 LOCATION NOTE: Read Instructions before completing this form Multnomah County (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) QUANTITY OR LOADING (4 Card Only) QUALITY OR CONCENTRATION (3 Card Only) FREQUENC NO. SAMPLE PARAMETER (46-53) (54-81) (38-45) (48-53) (54-61) TYPE (32-37) ANAL YSIS AVERAGE MAXIMUM UNITS MINIMIM **AVERAGE** MAXIMUM UNITS (62-63) (64-68) (69-70) SAMPLE FLOW CALC 0 MEASUREMENT N/A GPD PERMIT SEE COVER LETTER REQUIREMENT SAMPLE 7.9 1/7 GRAB 6.5 7.3 MEASUREMENT 0 TEMPERATURE PERMIT C N/A N/A N/A REQUIREMENT SAMPLE 7.1 6.8 7.0 MEASUREMENT 0 GRAB 1/7 SU PH PERMIT 6.0 REQUIREMENT 9.0 SAMPLE 3\_3 3.3 3.3 MEASUREMENT 0 1/7 **GRAB** OIL & GREASE mg/L PERMIT RECUIREMENT 0.0 10.0 15.0 SAMPLE <0.050 <0.050 < 0.050 MEASUREMENT 1/30 GRAB mq/L PHENOLS PERMIT 0.0 0.5 REQUIREMENT 0.7 SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAMETITLE PRINCIPAL EXECUTIVE OFFICER

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (INPOES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

Form Approved.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location If Different)

Koppers Industries, Inc.



## CERTIFICATE OF ANALYSIS

PROJECT NAME: Stormwater Tanks

%RECOVERY 50-150

CLIENT: Koppers Industries, Inc.

ATTN: Amos Kamerer

7540 NW St. Helens Road Portland OR, 97210-3663

PHONE: (503) 286-3681 FAX: (503) 285-2831

SUBMITTED: 01/17/05 14:02

REPORT DATE:	01/24/05 10:23	REPORT NUME	REPORT NUMBER: 5011705				PAGE: 1 OF	
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This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC.

7133 N. Lombard, Portland, OR 97203 Phone: (503) 286-9464 Fax: (503) 286-5355 E-mail: lab@ColumbiaInspection.com

ORIGINAL

FAX NO. :5032852831



Koppers Inc.

www.koppers.com

Carbon Materials and Chemicals 7540 NW Saint Helens Road Portland, OR 97210-3663 Tel 503 286 3681 Fax 503 285 2831

January 5, 2005

FROM : KOPPERS

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

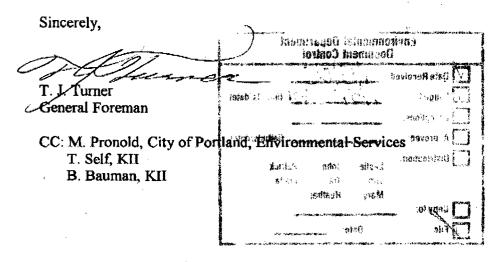
Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of December 2004.

For the month, we had two regular discharges of our 220,000-gallon storage tanks, totaling 440,000 gallons for the month. The first "slug" discharge of the 220,000 gallons was pumped on December 9<sup>th</sup> and the second on the 22nd. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnerti@koppers.com



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PERMITTEE NAME/ADDRESS (Include Facility Name/Location of Offerent) NATIONAL POLILITANT DISCHARGE FLIMINATION SYSTEM (NPDES) Form Approved. DISCHARGE MONITORING REPORT (DMR) OMB No. 2040-0004 Koppers Industries, Inc. 12.161 Approval expines 05-31-98 ADDRESS OR-000077-9 ດດາ 47430 7540 NW Saint Helens Road PERMIT NUMBER DISCHARGE MUMBER Portland, OR. 97210-3663 101642 MONITORING PERIOD Check here if No Discharge **FACILITY** YEAR I MO I DAY YEAR MO DAY Northwest Terminal LOCATION FROM 04 12 01 TO 04 12 31 Multnomah County NOTE: Read instructions before completing this form (28-27) (28-29) (30-31) (20-21) (22-23) (24-25) /3 Card Only QUANTITY OR LOADING (4 Card Only) QUALITY OR CONCENTRATION PARAMETER SAMPLE (48-53) (54-61) 138-461 (48-53) (54-81) EX (32-37) TYPE MINIMERM AVERAGE MAXIMIM UNITS rez-831 **AVERAGE** MUMIXAM UNITS (64-66) 789.701 SAMPLE FLOW CALC O N/A MEASUREMENT GPD SEE COVER LETTER PERMIT REQUIREMENT SAMPLE 9.1 GRAB 8.8 MEASUREMENT 9.0 O TEMPERATURE PERMIT C N/A REQUIREMENT N/A N/A SAMPLE 7.0 6.9 6.8 MEASUREMENT GRAB SU PH PERMIT REQUIREMENT 6.0 9.0 SAMPLE <2.0 <2.0 . <2.0 MEASUREMENT 0 1/7 GRAR OIL & GREASE mg/L PERMIT REQUIREMENT 0.0 10.0 15.0 SAMPLE :0.056 0.056 0.056 MEASUREMENT 0 1/30 **GRAB** mq/L PHENOLS PERMIT 0.0 0.5 0.7 REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT CERTIFY UNDER PERMATY OF LAW THAT THE DOCLMENT AND MLATTACHARH TO WERE PREPARED UNDER MY DIRECT DIVINE BUPERHISCON IN ACCORDANCE WITH A STRIPLE DESIGNED TO ASSURE, THE CAUSE OF THE PROPERTY OF THE PARK HAS DESIGNED TO ASSURE THE CAUSE OF THE PROPERTY OF THE PARK HAS DESIGNED THE STRIPLE, OF THE PARK HAS DESIGNED ON THE PARK HAS DESIGNED THE STRIPLE, OF THE PARK HAS DESIGNED ON THE PARK HAS DES NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

Turner

SIGNATURE OF PRINCIPAL EXECUTIVE

OFFICER OR AUTHORIZED AGENT

R. D. Collins

TYPED OR PRINTED

05

YEAR

**503. 286-368**1

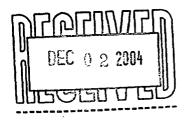
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DAY





Koppers Inc.

Carbon Materials and Chemicals

7540 NW Saint Helens Road Portland, OR 97210-3663 Tel 503 286 3681 Fax 503 285 2831 www.koppers.com

December 2, 2004

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of November 2004.

For the month, we had two regular discharges of our 220,000-gallon storage tanks, totaling 440,000 gallons for the month. The first "slug" discharge of the 220,000 gallons was pumped on November 5<sup>th</sup> and the second over the 27<sup>th</sup> & 28th<sup>d</sup>. There were no excursions during the month.

If you have any questions, I turnerti@koppers.com	4000	manufact or made in the		Friend Strain Comment
Sincerely,	(shecals) date)	mangarina i isang m	برشر وسهي	boygot
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CC: M. Pronold, City of Po	rtland, Environments	al Servic	es:	F1:e
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B. Bauman, KII				

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2004

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PERMITTEE NAME/ADDRESS (Involude Facility Name/Location # Different) NATIONAL POLLUTANT DISCHARGE FLABNATION SYSTEM (NPDER) Form Approved. OMB No. 2040-0004 DISCHARGE MONITORING REPORT (DMR) NAME Koppers Industries, Inc. (2-16) Approval expires 05-31-98 OR-000077-9 m 47430 ADDRESS 7540 NW Saint Helens Road DISCHARGE NUMBER PERMIT NUMBER Portland, OR. 97210-3663 101642 MONITORING PERIOD ☐Check here if No Discharge YEAR | MO | DAY YEAR MO DAY FACILITY Northwest Terminal LOCATION FROM 04 11 01 04 11 30 mΓ NOTE: Read Instructions before completing this form Multnomah County (20-21) (22-23) (24-25) (28-27) (28-29) (30-31) QUANTITY OR LOADING QUALITY OR CONCENTRATION (3 Card Only) (46-53) (4 Card Only) REQUENC NO. PARAMETER SAMPLE (38-45) (48-53) (54-61) (54-61) (32-37) ANALYSIS **AVERAGE** MAXIMUM UNITS MINIMILIM AVERAGE MAXIMUM UNITS 162-631 (84-68) (69-70) SAMPLE FT.OW CALC 0 MEASUREMENT N/A **GPD** SKE COVER LETTER PERMIT REQUIREMENT SAMPLE 11.1 9.5 7.9 Ω 1/7 GRAB MEASUREMENT O **TEMPERATURE** PERMIT REQUIREMENT N/A N/A N/A SAMPLE 7.0 6.8 6.9 MEASUREMENT 0 1/7 GRAB SD PH PERMIT -6.0 9.0 REQUIREMENT SAMPLE <2.0 <2.0 <2.0 Ω MEASUREMENT 1/7 **GRAB** OIL & GREASE mq/LPERMIT REQUIREMENT 0.n 10.0 15.0 SAMPLE < 0.05 <0.05 <0.05 0 MEASUREMENT 1/30 GRAB mq/L PHENOLS PERNIT REQUIREMENT 0.0 0.5 0.7 SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT CONTRY UNDER PENALTY OF UNITING THIS SOCIALIZED AND ALL ATTACHMENTS WERE PREPARED TRISTS HAY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESCRIBED TO ASSURE THAT DIALKHED THE SOCIAL PROPERTY OF THE PENALTY AND ENVIRONMENT OF THE PENALTY NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE 04 12 02 503, 286-3681 R. D. Collins SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT NUMBER YEAR

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Baumen, KII

MO

TYPED OR PRINTED

**Carbon Materials and Chemicals** 7540 NW Saint Helens Road Portland, OR 97210-3663 Tel 503 286 3681 Fax 503 285 2831

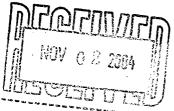
Koppers Inc.

www.koppers.com

ROM : KOFPERS

FAX NO. :5032852831





November 1, 2004

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of October 2004, including the 4<sup>th</sup> quarter PAH test results.

For the month, we had three regular discharges of our 220,000-gallon storage tanks, totaling 660,000 gallons for the month. Each "slug" discharge of the 220,000 gallons was pumped on October 13<sup>th</sup>, 25<sup>th</sup> and 28th<sup>d</sup>. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnertj@koppers.com

T. J. Furner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

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Date Received Logged Exceptions:	4	Zou	(initials/date)
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:KOPPERS

PERMITTEE NAME/ADDRESS (Include Facility Name/Location II Different) NATIONAL POLLUTANT DISCHARGE ELBANATION SYSTEM (IMPDES) DISCHARGE MONITORING REPORT (DMR) Form Approved. OMB No. 2040-0004 Koppers Industries, Inc. 12.061 Amproval expires 05-31-98 OR-000077-9 OOT ADDRESS 47430 7540 NW Saint Helens Road DISCHARGE NUMBER PERMIT NUMBER Portland, OR. 97210-3663 101642 MONITORING PERIOD Check here if No Discherge FACILITY YEAR MO DAY YEAR MO DAY Northwest Terminal LOCATION 04 10 31 FROM 04 10 01 TO NOTE: Read instructions before completing this form Multnomah County (26-27) (28-29) (30-31) (20-21) (22-23) (24-25) QUALITY OR CONCENTRATION (3 Card Only) QUANTITY OR LOADING (4 Card Only) NO. SAMPLE PARAMETER 148-531 (54-61) (38 45) (46.53) TYPE (32-37) ANALYSIS (84-88) (82 63) AVERAGE BEINIRÉ IM AVERAGE MAYIMINA UNITS (89-70) MAXIMUM UNHS SAMPLE FICH CALC 0 N/A MEASURFMEN' **GPD** SEE COVER LETTER PERMIT REQUIREMENT SAMPLE 0 GRAB 12.1 14.2 17.6 MEASUREMENT o TEMPERATURE PERMIT REQUIREMENT C N/A N/A N/A SAMPLE 6.9 7.1 0 GRAB MEASUREMENT 6.6 SU PH \* PERMIT 6.0 9.0 REQUIREMENT SAMPLE MEASUREMENT <2.0 1.3 2.6 0 1/7 GRAB OIL & GREASE ma/L **PERMIT** REQUIREMENT 0.0 10.0 15.0 SAMPLE MEASUREMENT 0.07 0.07 0.07 1/30 GRAB mq/L PHENOLS. PERMIT 0.5 0.70.0REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT RECUREMENT ICERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALLATIACHMENTS WERE PREPARED UNDER MY DIRECTION OR BUPER/MISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT DIRECTION OR BUPER/MISION IN ACCORDANCE WITH A SYSTEM DESIGNATION AND MATERIAL PROPERMONS AND MATERIAL PROPERMONS HAVE AND ADMITTED AND MEMORY OF THE PERSONS HAVE NOT THE MISION RANDOM THE MORE MATERIAL TO A COMPLETE. AND COMPLETE AND MEMORY OF THE PERSONS HAVE NOT AND ADMITTED BY THE ACCURATE AND COMPLETE. AND COMPLETE AND MEMORY THAT THE ACCURATE AND COMPLETE. AND ADMITTED A FACE AND SOME THAT THE SET AND EXPONENTIAL PARK DESIGNATION OF THE AND ADMITTED A FACE PROPERMATE. AND COMPLETE AND MEMORY AND ADMITTED A FACE PROPERMATE. AND ADMITTED ADMITTED AND ADMITTED AND ADMITTED AND ADMITTED ADMITTED AND ADMITTED ADMITTED AND ADMITTED ADMITTED. AND ADMITTED ADMITTED AND ADMITTED ADMITTED AND ADMITTED. ADMITTED ADMITTED ADMITTED ADMITTED. ADMITTED ADMITTED ADMITTED ADMITTED ADMITTED. ADMITTED ADMITTED ADMITTED ADMITTED ADMITTED. ADMITTED ADMITTED ADMITTED ADMITTED ADMITTED ADMITTED. ADMITTED ADMITTED ADMITTED ADMITTED ADMITTED ADMITTED. ADMITTED ADMITTED ADMITTED ADMITTED ADMITTED ADMITTED ADMITTED ADM NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE Turner 11 01 04 503. 286-3681 R. D. Collins SIGNATURE OF PRINCIPAL EXECUTIVE TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT NUMBER YEAR MO

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)





## CERTIFICATE OF ANALYSIS

CLIENT: Koppers Industries, Inc.

ATTN: Amos Kamerer

7540 NW St. Helens Road

Portland OR, 97210-3663

PROJECT NAME: Quarterly Stormwater Test

PROJECT NUMBER: quarterly stormwater

PHONE: (503) 286-3681

FAX: (503) 285-2831

SUBMITTED:

PEDODT DATE	: 10/19/04 10:07				/11/04 11:1	<del></del>	
NEPORT DATE	: 10/18/04 10:07	REPORT NUM		PAGE: 1 OF			
CI SAMPLE	CLIENTS ID#		DAT	E TIME MA	ATRIX		
4101101-01	Stormwater Tanks				ater	_	
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME
4101101-01 General Bench /	SAMPLE ID: Ston Analysis	mwater Tanks					
O & G, TOTAL (HEM	I) EPA 1664	TOTAL OIL AND GREASE	2.6	mg/L	2.0	AKH	10/12/2004 13:57
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	0.070	mg/L	0.050	AKH	10/12/2004 15:54
Semi-Volatile Or	ganics by Gas Ch	romatography/Mass Spectroscopy			-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
PNAH 625	EPA 626 (SIM)	ACENAPHTHENE ACENAPHTHYLENE ANTHRACENE BENZO(a)ANTHRACENE BENZO(b)FLUORANTHENE BENZO(b)FLUORANTHENE BENZO(b)FLUORANTHENE BENZO(c)FLUORANTHENE CHRYSENE DIBENZO(a,h)ANTHRACENE FLUORANTHENE FLUORENE INDENO(1,2,3-cd)PYRENI: NAPHTHALENE PHENANTHRENE PYRENE	ND ND 0.6 0.9 1.8 4.3 2.0 1.5 1.9 1.4 3.0 ND 1.8 ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04	DM	10/12/2004 16:37
	•,	Surrogate: 2-Fluorobiphenyi	82.1 %	%RECOVERY			
		Surrogate: Nitrobenzene-D3	77.8 %	%RECOVERY			
		Surrogate: p-terphenyl-D14	97.1 %	%RECOVERY	50-15 <b>0</b>		<del></del>

This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

KH.

COLUMBIA INSPECTION, INC. 7133 N. Lombard, Portland, CIR 97203 Phone:(503) 288-9464 Fax:(503) 286-5355 E-mail:lab@Columbialnapection.com



-

FROM : KOPPERS



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

February 4, 2004

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of January 2004, including the first quarter PAH test results.

For the month, we had four regular discharges of our 220,000-gallon storage tanks, for a total discharge of 880,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on January 16<sup>th</sup>, 23rd, 28th and 30th. There were no excursions during the month.

Additionally, this is to advise you that effective December 31, 2003 Amos Kamerer retired from Koppers. However, Amos will be available to assist me with any administrative matters that may develop. Accordingly, attached please find the letter authorizing me to sign such documents on behalf of Koppers Inc.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnertj@koppers.com

Sincerely,

General Foreman

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII

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Date Received Logoed:	79	12/5	(initials/date)
Approved,  Distribution:			(initials, date)
	Leslie Tim Mary	John Fram Heather	Patrick Linda
Copy to: _	Da	le:	annesses

Randall D. Collins
Vice President, Safety, Health & Environmental Affairs



January 30, 2004

Koppers Inc.
436 Seventh Avenue
Pittsburgh, PA 15219-1800
Tel 412 227 2456
Fax 412 227 2333
CollinsRD@koppers.com
www.koppers.com

In accordance with the policies of Koppers Inc. (Koppers), the Portland Terminal General Foreman is authorized to sign Permit Applications, Permits, and Reports as required under the Federal Clean Water Act, Resources Conservation and Recovery Act (RCRA), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable related state laws. Such reports include, but are not limited to, Discharge Monitoring Reports, Pretreatment Monitoring Reports, Hazardous Waste Generator and Facility Reports, Air Pollution Control Monitoring Reports, and Hazardous Material reports.

Sincerely,

Randall D. Collins

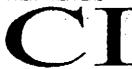
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FROM

ONAL POLLUTANT DISCHARGE ELIMINATION OF THE (1977)
DISCHARGE MONITORING REPORT (DMR)
12-18-1-19 Form Approved. OMS No. 2040-0004 NAME Koppers Industries. Inc. Approval expires 05-31-98 OR-000077-9 ກກັ 47430 ADDRESS 7540 NW Saint Helens Road PERMIT NUMBER DISCHARGE NUMBER 101642 Portland, OR. 97210-3663 MONITORING PERIOD Check here if No Discharge YEAR MO DAY YEAR I MO I DAY FACILITY Northwest Terminal 64 01 01 to 04 01 31 NOTE: Read Instructions before completing this form LOCATION Multnomah County (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) QUANTITY OR LOADING (4 Card Only) QUALITY OR CONCENTRATION FREQUENCY OF ANALYSIS (3 Card Only) SAMPLE PARAMETER (46-53) (54-61) (38-45) (46-53) (54-61) TYPE (32-37) AVERAGE AVERAGE MAXIMUM LINITS **MINIMUM** LINITS (62-63) MAXIMIM (64-69) (88-70) SAMPLE FLOW CALC O A\N MEASUREMENT **GPD** PERMIT REQUIREMENT SEE COVER LETTER SAMPLE 6.5 8.1 9.8 0 1/7 GRAB MEASURFHENT 0 TEMPERATURE PERMIT C N/A REQUIREMENT N/A N/A SAMPLE 7.1 7.2 0 7.3 MEASUREMENT GRAB SU PH PERMIT 6.0 9.0 REQUIREMENT SAMPLE <2.0 <2.0 <2.0 0 1/7 MEASUREMENT GRAB OIL & GREASE mq/L PERMIT REQUIREMENT 0.0 10.0 15.0 SAMPLE < 0.05 < 0.05 < 0.05 MEASUREMENT 1/30 GRAB mq/L PHENOLS PERMIT 0.5 0.0 REQUIREMENT 0.7 SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT ICERTIFY UNDER PERMITY OF LAW THAT THIS DOCUMENT AND ALL ATDACHMENT'S WERE PRE-PARED LINER BY DIRECTION OR SUPERVISION WILADOORS UNDER WITH A 8YS TEN DESIGNED TO ASSURE THAT QUARTED PERSONS AND EPICE AND GOVERNMENT OF HE WORKMAND RESISTED AND ON MY MODIERY OF THE PERSONS OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS UNDERSTRUCKED BY THE PARED HANDON, THE INFORMATION AND THE PROPERSONS WILLIAM STRUCKED BY THE PARED HANDON, THE INFORMATION AND THE PARED HANDON BY THE PARED HANDO NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE Turner 503, 286-3681 04 02 04 R. D. Collins SIGNATURE OF PRINCIPAL EXECUTIVE AREA OFFICER OR AUTHORIZED AGENT NUMBER TYPED OR PRINTED YEAR MO DAY COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

NATIONAL POLLIFFANT DISCHARGE ELIMINATION SYSTEM RIPDESS



## CERTIFICATE OF ANALYSIS

CLIENT: Koppers Industries, Inc.

7540 NW St. Helens Road

Portland OR, 97210-3663

ATTN: Amos Kamerer

PHONE: (503) 286-3681

FAX: (503) 285-2831

PROJECT NAME: Quarterly Stormwater Test

PROJECT NUMBER: quarterly stormwater

SUBMITTED: 01/14/04 11:46

REPORT DATE	: 01/16/04 15:06	REPORT NUME	BER: 40114	04		PAGE: 1 OF 1	
CI SAMPLE	CLIENTS ID#		DAT	re TIME	MATRIX		
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SAMPLE/ ANALYSIS	METHOD	METHOD PARAMETER		UNITS	DETECTION LIMIT	TECH	DATE/TIME
4011404-01	SAMPLE ID: Stormy	vater Tanks					
General Bench A  O & G, TOTAL (HEM		TOTAL OIL AND GREASE	ND	mg/L	2.0	PA	01/14/2004 16:34
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	0.14	mg/L	0.050	AKH	01/16/2004 15:13
Semi-Volatile Or	panics by Gas Chro	omatography/Mass Spectroscopy			_		
PNAH 625	EPA 625 (SIM)	ACENAPHTHENE	12.9	սց/Ն	0.05	DM	01/16/2004 09:09
		ACENAPHTHYLENE	2.4	ug/L	0.05		
		ANTHRACENE	2.3	ug/L	0.05		
		BENZO(a)ANTHRACENE	2.5	ug/L	0,05		
		BENZO(a) PYRENE	4.4	ug/L	0.05		
		BENZO(b)FLUORANTHENE	4.3	ug/L	0.05		
		BENZO(g,h,i)PERYLENE	2.6	ug/L	0.05		
		BENZO(k)FLUORANTHENE	4.4	υg/L	0.05		•
		CHRYSENE	4.7	υg/L	0.05		
		DIBENZO(a,h)ANTHRACENE	0.8	ug/L	0.05		
		FLUORANTHENE	9.1	ug/L	0.05		
		FLUORENE	4,0	ug/L	0.05		
		INDENO(1,2,3-∞d)PYRENE	2.8	ug/L	0.05		
		NAPHTHALENE	ND	ug/L	0.05		
		PHENANTHRENE	2.4	ug/L	0.05		
		PYRENE	7.2	ug/L	0.05		
		Surrogate: 2-Fluorobiphenyl 66	8 92.8%	%RECOVE	RY 50-150		
		Surrogate: Nitrobenzene-D5	120 %	%RECOVE	RY 50-150		
		Surrogate: p-tembenyl-D14	66.5 %	%RECOVE	RY 50-150		



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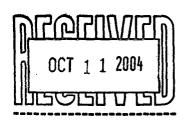
Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC.

7133 N. Lombard, Portland, OR 97203 Phone:(503) 288-9464 Fax:(503) 286-5355 E-mail:lab@Columbiainspection.com

FAX NO. :5032852831





Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831

www.koppers.com

October 5, 2004

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of September 2004.

For the month, we had one regular discharge of our 220,000-gallon storage tanks. This "slug" discharge of the 220,000 gallons was pumped on September 23<sup>rd</sup>. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnerti@koppers.com

Sincerely,

T.J. Turner

General Foreman

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII

Copy to:	Mary Dat	Heather	· .
/ Distribution:	Lestie Tim	John Traci	Patrick .
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EPA Form 3320-1 (10-96)

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Oct.

PERMITTEE NAME/ADDRESS (Include Fadility Named coallog # Different)

NAME OMB No. 2040-0004 Koppers Industries, Inc. (2-16) 117-120 Approval expires 05-31-98 OR-000077-9 001 47430 ADDRESS 7540 NW Saint Helens Road DISCHARGE MUNICIPAL PERMIT NUMBER Portland, OR. 97210-3663 101642 MONITORING PERIOD ☐ Check here if No Discharge YEAR I MO I DAY YEAR MO DAY FACE ITY Northwest Terminal FROM 04 09 01 04 09 30 LOCATION NOTE: Read Instructions before completing this form Multnomah County (20-21) (22-23) (24-25) (28-27) (28-29) (30-31) (3 Card Only) - QUANTITY OR LOADING DUALITY OR CONCENTRATION FREQUENCY OF ANALYSIS 44 Cont Only NO. PARAMETER BAMPLE (48-53) (54-81) (36-45) (46-53) (54-81) TYPE (32-37) AVERAGE MINIMETM AVERAGE MAYIMI MA UNITS (82-83) MAXIMUM UNITS (84-68) (69-70) SAMPLE FLOW CALC O N/A MEASUREMENT **GPD** SEE COVER LETTER PERMIT REQUIREMENT SAMPLE 0 1/7 GRAB MEASUREMENT 16.5 16.9 17.2 0 TEMPERATURE C PERMIT REQUIREMENT N/A N/A N/A SAMPLE 6.7 6.6 6.8 MEASUREMENT 0 **GRAB** SU PH PERMIT • REQUIREMENT 6.0 9.0 SAMPLE <2.0 <2.0 <2.0 MEASUREMENT 0 1/7 **GRAB** OIL & GREASE ma/L PERMIT RECURENENT 0.0 15.0 10.0 SAMPLE <0.05 MEASUREMENT <0.05 < 0.05 1/30 GRAB mg/L PHENOLS PERMIT 0.0 0.5 0.7 REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT ICERTIEV UNDER PRIMITY OF LAW THAT THE DOCUMENT AND MULA! IACHMENT IS WERE PROTRUCT UNDER INV OMECT DAY OF A PERMISSION IN ACCORDANCE WITH A SYMILEM DESIGNED TO ARRIVE THAT CHARLES PERSONNEL PROTECTIVE CONTRIBUTION DE UNUINT THE PROTRUCTURE AND DELIVATION THE PROTRUCTURE AND THE PERSONNEL PROTECTIVE CONTRIBUTION THE PERSONNEL PROTECTIVE AND THE PERSONNEL PROTRUCTURE AND THE PERSONNEL PROTRUCTU NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE Turner 10 05 04 503, 286-368; R. D. Collins SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TYPED OR PRINTED NUMBER YEAR MO COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM INPOESS

DISCHARGE MONITORING REPORT (DMR)

Form Approved.

PAGE 1 OF 1

Thaci Sell

•

FROM: KOPPERS FAX NO.: 5032852831



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

September 2, 2004

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of August 2004, including the third quarter PAH test results.

For the month, we had one regular discharge of our 220,000-gallon storage tanks. This "slug" discharge of the 220,000 gallons was pumped over two days, August 25<sup>th</sup> and 26<sup>th</sup>. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: <a href="mailto:turnertj@koppers.com">turnertj@koppers.com</a>

Sincerely,

T. J. Turner General Foreman

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location # Different)
NAME
Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY LOCATION Northwest Terminal Multnomah County

NATIONAL POLLUTANT DESCHARGE ELMINATION SYSTEM (NPDES)
DISCHARGE MONTTORING REPORT (DMR)
(17-18)

OR-000077-9 001
PERMIT NUMBER DISCHARGE NUMBER

474 UMBER 474

| MONITORING PERIOD | | YEAR | MO | DAY | YEAR | MO | DAY | | YEAR | MO | DAY | | O4 | O8 | 31 | O6-21 | O2-23 | O4-25 | O6-27 | O2-29 | O3-31 | O3-31

47430

101642

☐Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

PARAMETER		(20-21) (22-23) (24-2 (3 Card Only) QUANTITY OR LOADING (48-53) (54-61)			(4 Card Only) QUALITY OR CONCENTRATION				NO. FREQUENCY	SAMPLE	
(32-37)	(32-37)	AVERAGE	MAXIMUM	UNITS	(38-45) MINIMUM	(48-83) AVERAGE	(54-81) MAXIMUM	UNITS	EX (62-63)	ו אושעו אווו וווו וווו	1YPE (89-70)
FLOW	SAMPLE MEASUREMENT			GPD					0	N/A	CALC
SEE COVER LETTER	PERMIT REQUIREMENT	./									
	SAMPLE MEASUREMENT				20.6	20.8	21.0		0	1/7	GRAE
TEMPERATURE	PERMIT REQUIREMENT				N/A	N/A	N/A	C			
	SAMPLE MEASUREMENT				6.8	7.2	7.8		0	1/7	GRAE
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



## CERTIFICATE OF ANALYSIS

CLIENT: Koppers industries, Inc.

ATTN: T.J. Turner

7540 NW St. Helens Road Portland OR, 97210-3663

PROJECT NAME: Quarterly Stormwater Test

PROJECT NUMBER: quarterly stormwater

PHONE: (503) 286-3681

FAX: (503) 285-2831

SUBMITTED: 08/24/04 10:55

REPORT DATE:	08/25/04 14:50	REPORT NUMI	BER: 40824	04			PAGE: 1 OF 1
CISAMPLE	CLIENTS ID#		DAT	re TIME M	ATRIX		
4082404-01	Stormwater Tapica			24/2004 0800 V	atter	_	
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME
4082404-01 General Bench A	SAMPLE ID: Sto Inalysis	rmwater Tanks	•				
O & G, TOTAL (HEM)	) EPA 1664	TOTAL OIL AND GREASE	2.2	mg/L	2.0	AKH	08/25/2004 13:22
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	ND	mg/L	0.050	AKH	08/25/2004 16:03
Semi-Volatile On	oanics by Gas C	hromatography/Mass Spectroscopy					
PNAH 625	EPA 625 (SIM)	ACENAPHTHENE	ND	ug/L	0.04	DM	08/25/2004 14:12
		ACENAPHTHYLENE	ND	ug/L	0.04		
		ANTHRACENE	ND	ug/L	0.04		
		BENZO(B)ANTHRACENE	0.7	ug/L	0.04		
	•	BENZO(B)PYRENE	1.8	ug/L	0.04		
		BENZO(b)FLUORANTHENE	1,5	ug/L	0.04		
		BENZO(g,h,i)PERYLENE	ND	ug/L	0.04		
		BENZO(k)FLUORANTHENE	1.8	ug/L	0.04		
		CHRYSENE	ND	ug/L	0.04		
		DIBENZO(a,h)ANTHRACENE	ND	ug/L	0.04		
		FLUORANTHENE	1.5	ug/L	0.04		
		FLUORENE	ИD	ug/L	0.04		•
		INDENO(1,2,3-cd)PYRENE	ND	ug/L	0.04		•
		NAPHTHALENE	ND	ug/L	0.04		
		PHENANTHRENE	ND	ug/L	0.04		•
		PYRENE	ND	ug/L	0.04		
		Surrogate: 2-Fluoroblphenyl	102 %	%RECOVERY	50-150		
		Surrogate: Nitrobenzene-05	84.2 %	<b>MRECOVERY</b>			
		Surrogate: p-terphenyl-D14	80.2 %	%RECOVERY			

ORI GINAL

This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC. 7133 N. Lombard, Portland, OR 97203 Phono:(503) 288-9464 Fax:(503) 288-5355 E-mail:lab@ColumbiaInspection.com



Koppers Inc.

Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

August 3, 2004

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of July 2004.

There were no discharges during the month, thus, there were no excursions.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnertj@koppers.com

Sincerely,

T. Turner

General Foreman

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

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PORTESS 7540 NW Sail Portland, ( ACILITY Northwest 1 Multnomah (	dustries, Inc int Helens Ro DR. 97210-366 Ferminal	ead 3	MONITORING PERIOD  YEAR MO DAY YEAR MO FROM U4 U7 01 TO 04 07 (20-21) (22-23) (24-25) (26-27) (28-29)			(IZ-19) OOI WROSE NUMBER		lo Discharge	ctions before completing this form		
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	(84-88)	(69-70)
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

July 1, 2004

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of June 2004.

There were no discharges during the month, thus, there were no excursions.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: <a href="mailto:turnertj@koppers.com">turnertj@koppers.com</a>

Sincerely,

General Foreman

CC. M. Pronold, City of Portland, Environmental Services

T. Self, KII

Envir	ronmenta Docume	ni Depart nt Gontro	ment
Date Received:	1	104	2(initials/date)
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PERMITTEE NAME/ADDRESS (Include Facility NameRucation & Different) NATIONAL POLITIMAT (IRCHIRGE FLABRATION SYSTEM INFOESS Farm Approved. OMB No. 2040-0004 DISCHARGE MONITORING REPORT (DMR)
12-161
12-161 NAME Koppers Industries, Inc. Anormai emina 05-31-98 47430 OR-000077-9 003 ADDRESS 7540 NW Saint Relens Road CHICHARGE NUMBER PERMIT NUMBER Portland, OR. 97210-3663 101642 MONTORING PERIOD Check here if No Discharge YEAR | MO | DAY IYEAR | MO | DAY FACILITY Northwest Terminal LOCATION FROM 04 06 01 TO 04 06 30 NOTE: Read Instructions before completing this form Multnomah County (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) QUALITY OR CONCENTRATION OSANTITY OR LOADING (4 Card Only) (3 Card Only) REQUENC PARAMETER NO. SAMPLE (46-53) (48-53) (38-45) (54-81) OF ANALYSIS (54-61) (32-37) TYPE MINIMUM AVERAGE MAXIMITM (82-63) **AVERAGE** MAXIMUM UNITS UNITS (64-68) (69-70) RAMPLE FTOW CALC. MEASUREMENT 0 N/A GPD SEE COVER LETTER PERMIT RECUREMENT SAMPLE MEASUREMENT 0 GRAB 0 TEMPERATURE PERMIT C REQUIREMENT N/A N/A N/A SAMPLE MEASUREMENT 0 GRAB SII PH PERMIT 6.0 9.0 REQUIREMENT SAMPLE MEASUREMENT 0 1/7 GRAB OIL & GREASE mq/L PERMIT REQUIREMENT 0.0 10.0 15.0 SAMPLE MEASUREMENT 0 1/30 **GRAB** ma/L PHENOLS PERMIT 0.0 0.5 0.7 REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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I THE LAW FIRST PRODUCE FOR PERMIT OF THE ACCOUNT OF THE STORE OF TELEPHONE DATE T. J. Turner 286-3681 04  $0^7$ 01 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

MO

DAY

YEAR

NUMBER





June 2, 2004

Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

**Discharge Monitoring Report** 

Dear Mr. Zais,

Attached please find subject report for the month of May 2004.

There were no discharges during the month, thus, there were no excursions.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnertj@koppers.com

Sincerely,

T. J Turner General Foreman

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

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			Date Received Logged: Exceptions:	प्रमुख्य प्रमुख्य	(initials/date)	
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PERMITTEE NAME ADDRESS FACILITY LOCATION	NAME/ADDRESS (max Koppers Indus 7540 NW Saint Portland, OR. Northwest Ter Multnomah Cou	tries, Inc Helens Ro 97210-366 minal	ad	OR-OX PERM YFAR FROM 04	LARGE MON 2-16) DOO77-9 IIT NUMBER MONI MO   DA	TORING PERIOD Y YEAR  TO OA	(DMR) (17-19) OO] ARGE NUMBER	47430 101642 © Check here if No. NOTE: Read Instru	A Discharge	ompl		i-31 <i>-9</i> 8
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PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE Turner 286-3681 503. 06 02 04 R. D. Collins SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TYPED OR PRINTED NUMBER YEAR MO DAY COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all strachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

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OIL & GREASE

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Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831

www.koppers.com

May 4, 2004

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of April 2004, including the second quarter PAH results.

For the month, we had one regular discharge of our 220,000-gallon storage tanks, for a total discharge of 220,000 gallons. This "slug" discharge of 220,000 gallons each was pumped on April 21<sup>th</sup> and 26th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnerti@koppers.com

Sincerely,

T. J. Turner General Foreman

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

: KOPPERS

PERMITTEE NAME/ADDRESS Produce Facility Numer Location & Differently NATIONAL POLLUTANT DISCHARGE FLUMMATION SYSTEM (NPDES) Form Approved. OMB No. 2040-0004 DISCHARGE MONITORING REPORT (DMR) NAUF Koppers Industries, Inc. (2-16) Approval expires 05-31-98 **ADDRESS** OR-000077-9 MI 47430 7540 NW Saint Helens Road DESCHARGE NUMBER PERMIT HUMBER Portland, OR. 97210-3663 101642 MONITORING PERIOD Check here if No Discharge FACILITY Northwest Terminal VEAR MO DAY YEAR MO DAY LOCATION FROM 04 01 тοГ 04 04 30 NOTE: Read Instructions before completing this form Multnomah County (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) (3 Card Oak) \* QUANTITY OR LOADING QUALITY OR CONCENTRATION ٠,-(4 Cert Only) REQUENC NO. PARAMETER SAMPLE TYPE (46-53) (54-61) (38-45) (48-53) (54-01) OF ANALYSES (32-37) **AVERAGE** MAYNA BA MINUTES M AVERAGE MAXIMIM CTIMITS (R.Y.-83). CIMETS (84-66) (69-7C) SAUPI F FYOW CALC 0 MEASUREMENT N/A **GPD** SEE COVER LETTER PERMIT REQUIREMENT SAMPLE O GRAB MEASUREMENT 11.9 12.3 12.7 0 TEMPERATURE PERMIT  $\mathbf{C}$ N/A N/A N/A REQUIREMENT SAMPLE 7.2 MEASUREMENT 7.0 7.1 O GRAB SU PH PERMIT 6.0 9.0 REQUIREMENT SAMPLE MEASUREMENT <2.0 <2.0 <2.0 1/7 GRAR OIL & GREASE mg/L PERMIT REQUIREMENT 0.ก 10.0 15.0 SAMPLE < 0.05 MEASUREMENT <0.05 .0.05 0 1/20 GRAB mq/LPHENOLS PERMIT 0.5  $\Omega_*\Omega$ 0.7 REQUIREMENT RAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT CONTRY UNDER PEWALTY OF LAW THAT THE DOCUMENT AND ALLATHACHMENTS WERE PREPARED UNKER MY DIRECTION ON BUPENFROM IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CAME PREPARED PER ASSURE THAT CAME PREPARED PER ASSURE THAT CAME PREPARED PER ASSURE PROPER AND THE REPORT OF THE PERSON OR FERRITHON WHO ABUNGOE THE SYSTEM, ON THE DESIGNED ON MY MICLERY OF THE PERSON OR FERRITHON THE PERSON ON THE PERSON OF TH NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference of attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

Turner

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

R. D. Collins

TYPED OR PRINTED

05

MO

04

DAY

04

YEAR

503, 286-3681

NUMBER

AREA



# CERTIFICATE OF ANALYSIS

CLIENT: Koppers Industries, Inc.

ATTN: Amos Kamerer

7540 NW 8t. Helens Road Portland OR, 97210-3663 PROJECT NAME: Quarterly Stormwater Test

PROJECT NUMBER: "quarterly stormwater

PHONE: (503) 286-3681

FAX: (503) 285-2831

SUBMITTED: 04/20/04 08:35

REPORT DATE:	04/22/04 10:49	REPORT NUM	BER: 40420	02			PAGE: 1 OF 1
CI BAMPLE	CLIENTS (DV	· · · · · · · · · · · · · · · · · · ·	DAT	E TIME W	ATRIX		
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Sample/ Analysis	METHOD	PARAMETER	RESULTS	UNITS	DETECTION	TECH	DATE/TIME
4042002-01 General Bench A	SAMPLE ID: Storme Inalysis	vater Tanks					
O & G, TOTAL (HEM)	EPA 1664	TOTAL OIL AND GREASE	ND -	mg/L	2.0	AKH	04/21/2004 11:04
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	0.15	rng/L	0.050	AKH	04/21/2004 10:56
Semi-Volatile On	nanics by Gas Chro	matography/Mass Spectroscopy					
PNAH 825	EPA 625 (8IM)	ACENAPHTHENE	4.8	ug/L	0.03	ZZZ	04/20/2004 20:43
		ACENAPHTHYLENE	27	ug/L	0.03		1 12
		ANTHRACENE	4.8	ua/L	0.03	·	
		BENZO(a)ANTHRACENE	5.8	Ug/L	0.03	. •	
	A swell say the says	BENZO(a)PYRENE	12.1	ug/1.	0.03		And the second
		BENZO(b)FLUORANTHENE	10.6	ug/L	0.03	* ' ''.	4.0
•		BENZO(g.h.I)PERYLENE	120	ug/L	0.03		
	•	BENZO(K)FLUORANTHENE	7.5	ug/L	0.03		·
		CHRYBENE	5.6	na/r	0,03		
		DIBENZO(A,h)ANTHRACENE	8.9	ug/L	0.03	1 .	
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		PHENANTHRENE	1.4	ug/L	0.03 0.03		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
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		Surrogate: Nitrobenzene D5	86.3 %	WRECOVER		·	
		Surrogate: p-terphonyl-D14	94.8 %	MRECOVER	60-150	• •	

This report may not be reproduced except in full

Authorized for Release By:

Richard D. Reid - Laboratory Director

733 N. Compard, Portland, Oft 97503 Phone (603) 286 0406 Fattings) 286 0406 F. mellist to College

FAX NO. :5032852831



Koppers Inc.

**Carbon Materials and Chemicals** 

7540 NW Saint Helens Road Portland, OR 97210-3663 Tel 503 286 3681 Fax 503 285 2831 www.koppers.com

April 2, 2004

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais.

Attached please find subject report for the month of March 2004.

For the month, we had one regular discharge of our 220,000-gallon storage tanks, for a total discharge of 220,000 gallons. This "slug" discharge of 220,000 gallons each was pumped on March 25<sup>th</sup> and 26th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnertj@koppers.com

Sincerely,

T. J. Turner General Foreman

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KU

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMIT REQUIREMENT

SAMPLE MEASUREMENT

PERMIT REQUIREMENT

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

FAX NO. :5032852831



Koppers Inc.

Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

March 2, 2004

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of February 2004.

For the month, we had three regular discharges of our 220,000-gallon storage tanks, for a total discharge of 660,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on February 6<sup>th</sup>, 17th and 27th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnertj@koppers.com

Sincerely,

General Foreman

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

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Copy to:		e. Heer	

12:56PM

:KOPPERS

PERMITTEE NAME	NAME/ADDRESS (Include Facility Name/Location if Differen
NAME	Koppers Industries, Inc.
ADDRESS	7540 NW Saint Helens Road

7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY Northwest Terminal LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELBAINATION SYSTEM INPOES! DISCHARGE MONITORING REPORT (DMR)

001 PERMIT NUMBER

07

YEAR MO DAY

(20-21) (22-23) (24-25)

MONITORING PERIOD

DISCHARGE NUMBER

YEAR MO DAY

04

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form (26-27) (28-29) (30-31)

Form Approved. OMB No. 2040-0004 Approval expires 05-31-98

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

FROM : KOPPERS



Koppers Inc.
Carbon Materials and Chemicals

7540 NW Saint Helens Road Portland, OR 97210-3663 Tel 503 286 3681 Fax 503 285 2831 www.koppers.com

January 6, 2004

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of December 2003.

For the month, we had six regular discharges of our 220,000-gallon storage tanks, for a total discharge of 1,320,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on December 5<sup>th</sup>, 12<sup>th</sup>, 15<sup>th</sup>, 18<sup>th</sup>, 30th and 31st.

As you know, we had a high oil and grease test result early this month. Our first sample came back with an O&G of 25.3 mg/l. When Columbia Inspection reported the result they commented that the oil was a "clear amber brown", typical of motor oil, atypical of what they normally see from our facility. We immediately did an inspection of the plant looking for anything that could be the cause of this high test result. We found nothing obvious and took a second sample for analysis. Later that afternoon, the results of this sample cane back with a result of 11.1 mg/l.

The MSDS for the heat transfer oil that we use in our two hot oil heating systems describes this oil as a "clear liquid, light yellow color". Do to the similarity of this description to what the lab reported, we took a more in depth look at our two hot oil heating areas. The only thing that we found that could be an issue, was the fact that we have a rain drain in each of the two hot oil containment areas, that lets the storm water drain into the tank farm, where all of our storm water is collected in to our storage tanks, after it goes through the oil water separator. These drains have valves at the end of each line that is closed to about the 95% level. Our thinking being that should we have a breach in the heat transfer oil system within the containment, these valves could be closed completely, keeping as much of the breached oil in containment and out of the tank farm

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#### Page 2

There is a normal amount of leakage that occurs at the various pumps and valves used with in these hot oil heating system areas, but we have never thought it to be sufficient enough to be a problem. However, we decided that we should try to eliminate this as a possible source of the problem and have taken two 55 gallon drums and placed them under the drains down in the tank farm. These drums were drilled with holes in the bottom and then lined with absorbent pads to correct any of this oil that is coming from the containment areas before it enters the tank farm. These drums have now become a part of our regular plant inspection program and the pads will be changed, as needed.

We also will be adding a "wire-netted-holder" to place absorbent pads into and then place 2 or 3 of these holders in the last chamber of the oil water separator, for additional oil collection. These will also be inspected on a regular basis.

With the first two results in hand and our planned items of possible remedy, I called you the morning of December 2 and described all of the above. You asked that we take a third sample for further review. This came back as "non-detect". You then indicated that you were not concerned with this material and that we could go ahead with the discharge it to our outfall and that there would not be an NOV issued.

As we also copy the City of Portland, Dept. of Environmental Services on our DMR's, I called Michael Pronold and explained all of the above to him. Michael agreed with your assessment and we commenced with the discharge, at that time.

Also, for what it is worth; we had three additional O&G samples over the rest of the month and the results for those were 4.1, N.D. and 3.3 mg/l. So, why we had the one high one result, is unclear to me.

I would like to thank both you and Michael for your help and understanding in working with me, in this regard.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: <a href="mailto:kamereras@koppers.com">kamereras@koppers.com</a>

Sincerely,

Moos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

JM :KOPPERS
FROM

PERMITTEE NAME ADDRESS FACILITY LOCATION	NAME/ADDRESS na Koppers Indus 7540 NW Saint Portland, OR. Northwest Ter Multnomah Cou	tries, Inc Helens Ro 97210-366 minal	ed	DISCHOOL OR ON OR	ARGE MON 22-16 COO77-9 IT NUMBER MONI	TORING PERIOD Y YEAR 1 TO 03	8TEM (NPDES) (DMR) (17-39)  OOI  NAGE NUMBER  MO DAY 12 31 28-29) (30-31)	47430 101642    Check here if N	o Discharge	OMB N Approvi	pproved, o. 2040-00 al expires i leting this	<b>05</b> -31- <del>9</del> 8
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FROM : KOPPERS

FAX NO. :5032852831

Dec. 03 2003 11:40AM P1



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 283 2831
www.koppers.com

December 3, 2003

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention; Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais.

Attached please find subject report for the month of November 2003.

For the month, we had two regular discharges of our 220,000-gallon storage tanks, for a total discharge of 440,000 gallons. These "slug" discharges of 220,000 gallons each was pumped on November 14th and 20th, 2003. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely2

mos S. Kamerer

C. M. Pronold, City of Portland, Environmental Services

T. Self, KII

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FROM : KOPPERS 12/03/2003

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Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

November 4, 2003

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

**Discharge Monitoring Report** 

Dear Mr. Zais,

Attached please find subject report for the month of October 2003, including the 4<sup>rd</sup> quarter PAH test results.

We had one regular discharge of our 220,000-gallon storage tanks. This "slug" discharge of 220,000 gallons was pumped on October 15, 2003. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely

Amos S. Kamerer

CC.M. Pronold, City of Portland, Environmental Services

T. Self, KII

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Approval expires 05-31-98 ADDRESS OR-000077-9 ការ 47430 7540 NW Saint Helens Road PERMIT NUMBER DISCHARGE HE MINER Portland, OR. 97210-3663 101642 MONITORING PERIOD Check here if No Discharge FACE ITY Northwest Terminal YEAR MO DAY YEAR I MO DAY LOCATION FROM 03 10 01 TO 03 10 31 NOTE: Read instructions before completing this form Multnomah County (20-21) (22-23) (24-25) (26-27) (25-29) (30-31) CHANTITY OR LOADING QUALITY OR CONCENTRATION FREQUENCY OF ANALYSIS (3 Cent Only) (4 Card Only) PARAMETER MC) SAMPLE [54-61] (45-53) (54-81) (38-45) (48-53) FX TYPE (32-37) MENSHIM **#62-83**k AVERAGE MAXIMUM UNITS AVERAGE MAYIMI M LINITS (64-68) 689-701 SAMPLE FLOW CALC. 0 N/A MEASUREMENT GPD SEE COVER LETTER PERMIT REQUIREMENT SAMPLE 13.8 14.1 14.4 0 1/7 GRAR MEASUREMENT O TEMPERATURE PERMIT N/A N/A N/A REQUIREMENT SAMPLE 7.1 7.0 7.1 MEASUREMENT Ω GRAB SU PH PERMIT 6.0 9.0 REQUIREMENT SAMPLE <2.0 <2.0 MEASUREMENT <2:0 0 GRAB OIL & GREASE mg/L PERMIT REQUIREMENT 0.0 10.0 15.0 SAMPLE <0.05 <0.05 <0.05 MEASUREMENT 1/30 **GRAB** 0 mq/L PHENOLS PERMIT 0.0 0.5 RECHREMENT 0.7 SAMPLE MEASUREMENT **PERMIT** REQUIREMENT SAMPLE NEASUREMENT PERMIT RECUBREMENT CERTENY UNDER PRIMARY OF LAW THAT THIS COCUMENT AND ALL OT ACCIDENTS WERE PREMARED UNDER ANY DIRECTION OR SUPERINGEN IN ACCORDANCE WITH A SYSTEM (RESISSAND TO ARRUPE ANY DEVELOPE AND SEQUENCE THE PROFRAMENTOR BUBBLIFLE HAVE OUT ANY DIRECTION OF THE PRISONON OR PRISONS WHO WANNED THE SYSTEM, OR THOSE PRISONS OF INFECTION AND THE MARKANITION. THE HOPFORMATION AND PROFRAMENTOR ADMITTED BY THE PROPRIEST OF ANY PROPRIESTORS OF THE MARKANITION THE PROPRIESTORS ADMITTED BY TO THE PROPRIESTORS AND THE PROPRIESTOR AND THE PROPRIESTORS AND THE PROPRIESTORS OF THE PROPRIESTORS AND THE PROPRIESTORS OF THE PROPRIESTORS AND THE PROPRIESTORS OF THE PROPRIESTORS AND THE PROPRIESTORS AND THE PROPRIESTORS OF THE PROPRIESTORS AND TH NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE S. 503, 286-3681 04 03 11 *Kamerer* R. D. Collins SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT TYPED OR PRINTED NUMBER YEAR MO DAY COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM INPOES!

DISCHARGE MONITORING REPORT (DMR)

(2-16)

PERMITTEE NAME/ADDRESS (Include Facility Marriel Location if Different)

Koppers Industries, Inc.



## CERTIFICATE OF ANALYSIS

CLIENT: Koppers Industries, Inc.

7540 NW St. Helens Road

Portland OR, 97210-3663

ATTN: Amos Kamerer

PROJECT NAME: Quarterly Stormwater Test

PROJECT NUMBER: quarterly stormwater

PHONE: (503) 286-3681

FAX: (503) 285-2831

SUBMITTED: 10/13/03 09:25

REPORT DATE	: 10/15/03 10:10	REPORT NUME	ER: 31013	01			PAGE: 1 OF 1
CI SAMPLE	CLIENTS ID#		DAT	re time	MATRIX		
3101301-01	Stormwater Tanks		10/1	13/2003 0800	Water		
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION	TECH	DATE/TIME
3101301-01 General Bench A	SAMPLE ID: Stor Analysis	rnwater Tanks					
O&G, TOTAL (HEM	) EPA 1664	TOTAL OIL AND GREASE	ND	mg/L	2.0	PA	10/14/2003 13:08
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	ND	mg/L	0.050	RGR	10/13/2003 16:05
Semi-Volatile Or PNAH 625	rganics by Gas Cl EPA 625 (SIM)	Aromatography/Mass Spectroscopy ACENAPHTHENE ACENAPHTHYLENE ANTHRACENE BENZO(a)ANTHRACENE BENZO(b)PYRENE BENZO(b)FLUORANTHENE BENZO(b)FLUORANTHENE BENZO(b)FLUORANTHENE CHRYSENE DIBENZO(a,h)ANTHRACENE FLUORANTHENE FLUORENE INDENO(1,2,3-cd)PYRENE NAPHTHALENE PHENANTHRENE PYRENE Surrogato: 2-Fluorobiphenyl	5.6 0.9 3.8 3.2 5.1 5.8 4.2 3.7 4.2 1.0 8.2 4.3 3.5 0.6 2.9 7.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04	<b>7772</b>	10/13/2003 19:56
		Surrogate: Nitrobenzene-D5	51.5 %	%RECOVE			
		Surrogate: p-terphenyl-D14	76.8 %	%RECOVE			



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Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION. INC.

7133 N. Lombard, Portland, OR 97203 Phone:(503) 286-9484 Fax:(503) 288-5355 E-mail:lab@ColumbiaInspection.com

FAX NO. :5032852831



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

October 1, 2003

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of September 2003, including the 3<sup>rd</sup> quarter PAH test results.

We had one regular discharge of our 220,000-gallon storage tanks. This "slug" discharge of 220,000 gallons was pumped on September 14, 2003.

As you know, we had what I believe to be an anomaly with the oil and grease sampling of this storm water. Due to the extremely dry summer that we have had, this was the first sample taken from our storage tanks since May 8<sup>th</sup>, or for a full 4 month period. The rain that we had on September the 7<sup>t</sup> and the early morning hours of the 8<sup>th</sup> was very heavy. I believe that we had a big wash of street oily water across Hwy. 30 and then across the PWRR railroad tracks and into our tank farm, causing the higher level of oil and grease.

Regardless; our 1<sup>st</sup> sample taken on the 8<sup>th</sup> tested at 33.3 mg/L, which was very high and very unusual. A 2<sup>nd</sup> sample was taken on the 9<sup>th</sup> from the same sample point and via the same sampling method and it tested at 12.8 mg/L. At your suggestion, a 3<sup>rd</sup> sample was taken on the 10th, again from the same sample point and via the same method, this tested at <2.0 mg/L, or non-detect.

After conversations with both yourself and Michael Pronold, City of Portland, Environmental Services, we all concluded that this was an anomaly and that we could proceed with the discharge via our normal outfall and that no Notice of Violation would be issued.

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Koppers Inc.

Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

Page 2

I personally would like to thank you both for your understanding in this matter. We at Koppers take these types of matters seriously and it is nice to know that we can have this kind of dialog when something unusual develops.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: <a href="mailto:kamereras@koppers.com">kamereras@koppers.com</a>

Sincerely

Amos S. Kamerer

C.M. Pronold, City of Portland, Environmental Services

T. Self, KII

Koppers003074

PERMITTEE NAME/ADDRESS (Include Facility Named oction if Different) NATIONAL POLITICANT DISCHARGE ELIMINATION SYSTEM INPOERI Form Approved. DISCHARGE MONITORING REPORT (DWR) OMB No. 2040-0004 Koppers Industries, Inc. (2-15) (12-19) Approval expires 05-31-98 OR-000077-9 ADDRESS กกา 47430 7540 NW Saint Helens Road PERMIT NUMBER DISCHARGE MILLIARER Portland, OR. 97210-3663 101642 MONITORING PERIOD Check here if No Discharge FACILITY YEAR MO DAY Northwest Terminal YEAR MO DAY LOCATION 09 01 то 03 09 30 FROM 0.3 NOTE: Read Instructions before completing this form Multnomah County (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) QUANTITY OR LOADING **CUALITY OR CONCENTRATION** /3 Card OnM (4 Card Only) REQUENC NO. SAUPLE PARAMETER (45-53) (54-61) (54-81) OF (38-45) (48-53) (32-37) TYPE ANALYSIS AVERAGE UNITS MINIMUM AVERAGE MAXIMIM UNITS **632-63**3 MAXIMERA (64-68) (89-70) SAMPLE PLOW CALC 0 N/A MEASUREMENT GPD SEE COVER LETTER PERMIT REQUIREMENT SAMPLE 21.9 19.6 18.1 0 GRAB MEASUREMENT 0 TEMPERATURE PERMIT C RECUREMENT N/A N/A N/A SAMPLE 7.5 7.1 7.3 MEASUREMENT Ω 1/7 GRAB SII PH PERMIT REQUIREMENT 6.0 9.0 SAMPLE 33.3 <2.0 12.8 1/7 0 GRAB MEASUREMENT OIL & GREASE mg/L PERMIT REQUIREMENT 0.0 10.0 15.0 SAMPLE <0.05 <0.05 < 0.05 MEASURENENT 1/30 GRAB 0 mq/L PHENOLS PERMIT 0.0 0.50.7 REQUIREMENT SAMPLE MEASUREMENT PERMIT REGUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

Kamerer

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TELEPHONE

503. 286-3681 03

NUMBER

YEAR

DATE

10

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01

DAY



### CERTIFICATE OF ANALYSIS

CLIENT: Koppers Industries, Inc.

7540 NW St. Helens Road

Portland OR, 97210-3663

ATTN: Amos Kamerer

PROJECT NAME: Quarterly Stormwater Test

PROJECT NUMBER: quarterly stormwater

PHONE: (503) 286-3681

FAX: (503) 285-2831

SUBMITTED: 09/08/03 15:10

REPORT DATE	: 09/10/03 11:26	REPORT NUMB	ER: 309	0806				PAGE: 1 OF 1
C) SAMPLE	CLIENTS ID#			DATE	TIME	MATRIX		· · · · · · · · · · · · · · · · · · ·
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3090806-01 General Bench /				_				
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PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	ND	mg/L		0.050	RGR	09/08/2003 17:09
Semi-Volatile Or	rganics by Gas Chro	omatography/Mass Spectroscopy						
PNAH 825	EPA 825 (SIM)	ACENAPHTHENE	ND	ug/L		0.04	DM	09/09/2003 15:08
		ACENAPHTHYLENE	ND	ug/L		0.04		
		ANTHRACENE	0.7	ug/L		0.04		
		BENZO(a)ANTHRACENE	0.8	ug/L		0.04		
		BENZO(a)PYRENE	2.0	ug/L		0.04		
		BENZO(b)FLUORANTHENE	2.3	ug/L		0.04		
		BENZO(g,h,I)PERYLENE	2.7	ug/L		0.04		•
		BENZO(k)FLUORANTHENE	1.4	ug/L		0,04		
		CHRYSENE	1.1	սց/Լ		0.04		
		DIBENZO(a,h)ANTHRACENE	4.2	ug/L		0.04		
		FLUORANTHENE	1.2	ug/L		0.04		
		FLUORENE	ND	ug/L		0.04		
		INDENO(1,2,3-od)PYRENE	2.2	ug/L		0.04		
		NAPHTHALENE	ND	ug/L		0.04		
		PHENANTHRENE	0.4	ug/L		0.04		
		PYRENE	1.0	ug/L		0.04		
		Surrogate: 2-Fluorobiphenyl	71.0 %	%F	RECOVE	RY 50-150		
		Surrogate: Nitrobenzene-D5	65.0 %	96F	RECOVE	RY 60-150		
		Surrogate: p-terphenyl-D14	59.6 %			RY 50-150		



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Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC. 7133 N. Lombard, Portland, OR 97203 Phone:(503) 286-9464 Fax:(503) 286-5355 E-mail:lab@ColumbiaInapection.com



Koppers Inc.

**Carbon Materials and Chemicals** 

7540 NW Saint Helens Road Portland, OR 97210-3663 Tel 503 286 3681 Fax 503 285 2831 www.koppers.com

September 3, 2003

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

**Discharge Monitoring Report** 

Dear Mr. Zais,

Attached please find subject report for the month of August 2003.

There were no discharges during the month; thus, there were excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: <a href="mailto:kamereras@koppers.com">kamereras@koppers.com</a>

Sincerel

Amos S. Kamerer

CC-M. Pronold, City of Portland, Environmental Services

T. Self, KII

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Approved:			(initials/date)
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Copy to:	Mary	Heather	
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PERMITTEE NAME/ADDRESS (Include Facility Name Location if Different) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NIPLIES) Form Approved. OMB No. 2040-0004 DISCHARGE MONITORING REPORT (DMR) Koppers Industries, Inc. (2-16) Approval expires 05-31-98 OR-000077-9 ADDRESS ດດາ 47430 7540 NW Saint Helens Road PERMIT NUMBER PROPHABOSE MI BARGER Portland, OR. 97210-3663 101642 MONITORING PERIOD ☑ Check here if No Discharge FACILITY YEAR NO DAY YEAR MO DAY Northwest Terminal LOCATION FROM 03 08 01 08 31 03 NOTE: Read Instructions before completing this form Multnomah County (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) (3 Card Only QUANTITY OR LOADING (4 Card Only) QUALITY OR CONCENTRATION FREQUENCY PARAMETER NO. SAMPLE MAR-STI (54.61) (38-45) 48.531 154-611 7 (32-37) TYPE AVALYSIS 184-681) AVERAGE MAXIMUM HNITS MINBALIM AVERAGE MAXIMUM UNITS FE2-62 (69-70) SAMPLE FLOW CALC 0 MEASUREMENT N/A **GPD** SEE COVER LETTER PERMIT RECLUREMENT SAMPLE 1/7 0 GRAB MEASUREMENT 0 TEMPERATURE PERMIT C REQUIREMENT N/A N/A N/A SAMPLE MEASUREMENT 0 1/7 GRAB SD PΗ PERMIT 6.0 9.0 REQUIREMENT SAMPLE 0 MEASUREMENT 1/7 GRAB OIL & GREASE mq/L PERMIT REQUIREMENT 0.0 10.0 15.0 SAMPLE MEASUREMENT O 1/30 **GRAB** mar/L PHENOLS PERMIT REQUIREMENT 0.0 0.5 0.7 SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT I CERTIEY : MICEN PENNLYT OF LAW THOTT HIS DOCUMENT AND ALL AT IAC-MERT'S WEITE PREPARED LINGER MY DIRECTION OR BURETYSICK IN ACCOMMENT WITH A SYSTEM DESIGNED TO ARREPS THAT CAME PERSON PROPERTY OF GOTHER AND EVALUATE THE REPORTANT OR BURIETTE HAS DONE OF MY MICLIEY OF THE PERSON OR PERSONS WHO MANAGE. THE SYSTEM, OR THOSE PERSONS OF REPORTANT OR PROPARED OR HAS DONE OF THE MY COMMENTE. AND STATEMENT OF THE WORKSHAPPING AND THE MY MORNAUTY OR STATEMENT OF THE WORKSHAPPING AND THE PROPARED ON THE WORKSHAPPING AND THE WORKSHAPPING NAMETITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE Ramerer 503, 286-3681 03 03 09

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all ettachments here)

MO DAY

YEAR



Koppers Inc.

Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831

www.koppers.com

August 4, 2003

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of July 2003.

There were no discharges during the month; thus, there were excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:

kamereras@koppers.com

Sincerely

Aprios S. Kamerer

CC-M. Pronold, City of Portland, Environmental Services

T. Self, KII

БЗ

PERMITTEE NAME/ADDRESS (Include Facility NameAucoston & Office ont)
NAME Koppers Industries, Inc.

FROM : KOPPERS

EPA Form 3320-1 (10-96)

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PAGE 1 OF 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (IPPOES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)



Koppers Inc.

Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681

Fax 503 285 2831 www.koppers.com

July 2, 2003

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of June 2003.

There were no discharges during the month; thus, there were excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:

kamereras@koppers.com

Sincerely

Aprios/S,/Kamerer

W. Pronold, City of Portland, Environmental Services

T. Self, KII

PERMITTEE NAME/ADDRESS (NAME Koppers Indus	dude Facility Name <b>l</b> ocal stries, Inc	Fori #101fferenil)			HARGE ELIMINATION SYS		·		Form Ap OMB No Approva	proved. . 2040-000 I expires 05	4 i-31-98
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

FAX NO. :5032852831

Jun. 04 2003 01:58PM P:



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

June 4, 2003

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of May 2003.

For the month, we had one regular discharge of our 220,000-gallon storage tanks, for a total discharge of 220,000 gallons. This "slug" discharge of 220,000 gallons was pumped on May 9th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely

Apros S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

Envir	onmenta D <b>ocume</b> l	i Depart nt Contro	ment I
Date Received Logged: Exceptions:	94	9h 65	(initials/date)
Approved:			(initials/date)
Distribution:	Leslie Tim Mary	John Traci Heather	Patrick Linda
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (HPDES)
DISCHARGE MONITORING REPORT (DMR) PERMITTEE NAME/ADDRESS (Include Facility Name/Location & Different) Form Approved. QMB No. 2049-0004 NAME Koppers Industries, Inc. Approval expires 05-31-98 OR-000077-9 001 ADDRESS 7540 NW Saint Helens Road 47430 PERMIT NUMBER DISCHARGE NUMBER Portland, OR. 97210-3663 101642 MONITORING PERIOD Check here if No Discharge YEAR MO DAY FACILITY Northwest Terminal YEAR MO DAY LOCATION FROM 03 05 OI 03 05 31 to NOTE: Read Instructions before completing this form Multroman County (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) QUANTITY OR LOADING QUALITY OR CONCENTRATION (3 Card Only) (4 Cord Only) REQUENCY OF ANALYSIS NO. PARAMETER SAMPLE (46-53) (54-81) (38-45) (48-53) (54-81) TYPE (32-37) **AVERAGE** MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS (52-63) (64-88) (89-70) SAMPLE FLOW CALC. Ω N/A MEASUREMENT **GPD** SEE COVER LETTER PERMIT REQUIREMENT SAMPLE 13.0 13.7 14.4 O 1/7 GRAB MEASUREMENT O TEMPERATURE PERMIT C REQUIREMENT N/A N/A N/A SAMPLE 7.3 7.1 7.2 MEASUREMENT 1/7 0 **GRAB** SU PH PERMIT 6.0 9.0 REQUIREMENT SAMPLE 2.0 2.0 2.0 MEASUREMENT 1/7 **GRAB** OIL & GREASE mq/L PERMIT REQUIREMENT 0.0 10.0 15.0

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SIGNATURE OF PRINCIPAL EXECUTIVE

OFFICER OR AUTHORIZED AGENT

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SAMPLE MEASUREMENT

PERMIT

REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE

CC: M. Pronold, City of Portland; T. Self, KII; B. Baumna, KII

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**GRAB** 

MO

DAY

YEAR

R. D. Collins

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PHENOLS



05-05

Koppers Inc.

Carbon Materials and Chemicals

7540 NW Saint Helens Road Portland, OR 97210-3663 Tel 503 286 3681 Fax 503 285 2831 www.koppers.com

May 6, 2003

:KOPPERS INDUSTRIES,

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

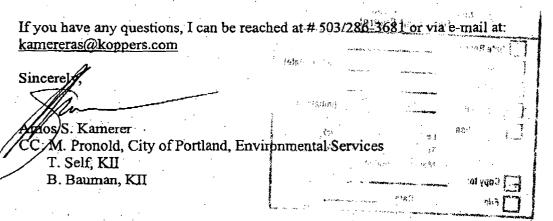
Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais.

Attached please find subject report for the month of April 2003.

For the month, we had six regular discharges of our 220,000-gallon storage tanks, for a total discharge of 1,320,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on the following days: April 2nd, 3<sup>rd</sup>, 9<sup>th</sup>, 17<sup>th</sup>, 18<sup>th</sup>, and 24th. There were no excursions during the month.



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Distribution:	Leslie	.10151	Patrick .	
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Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

April 1, 2003

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of March 2003.

For the month, we had six regular discharges of our 220,000-gallon storage tanks, for a total discharge of 1,320,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on the following days: March 7<sup>th</sup>, 12<sup>th</sup>, 14<sup>th</sup>, 20<sup>th</sup>, 21st and 28th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: <a href="mailto:kamereras@koppers.com">kamereras@koppers.com</a>

Sincerely

Amos/S/Kamerer

CC: M. Pronold, City of Portland, Environmental Services

Self, KII Bauman, KII

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2003,04

PERMITTEE NAME/ADDRESS (Include Fadilly Nerned ocalion if Different) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (IMPDES)
DISCHARGE MONITORING REPORT (DMR) Form Approved NAME OMB No. 2040-0004 Koppers Industries, Inc. Approval expires 05-31-98 OR-000077-9 ADDRESS ດດາ 47430 7540 NW Saint Helens Road DISCHARGE MIMBER PERMIT NUMBER Portland, OR. 97210-3663 101642 MONITORING PERIOD ☐ Check here if No Discharge FACILITY Northwest Terminal YEAR MO DAY YEAR MO DAY LOCATION FROM 03 03 01 to 03 03 31 Multnomah County NOTE: Read instructions before completing this form (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) (3 Card Only) QUANTITY OR LOADING (4 Card Only) QUALITY OR CONCENTRATION REQUENCY OF ANALYSIS PARAMETER SAMPLE {48-53} (54-61) (38 45) (40-53) (54-81) EX. TYPE (32-37) AVERAGE MAXIMUM MINIMUM **AVERAGE** MAXIMUM UNITS (82-83) UNITS [64-68] (89-70) SAMPLE FLOW. CALC Ω N/A MEASUREMENT **GPD** SEE COVER LETTER PERMIT REQUIREMENT SAMPLE 9.9 11.6 13.6 0 1/7 **GRAB** MEASUREMENT 0 TEMPERATURE PERMIT REQUIREMENT C A\N N/A N/A SAMPLE 7.1 7.2 7.4 MEASUREMENT GRAB SU PH PERMIT 6.0 9.0 REQUIREMENT SAMPLE MEASUREMENT <2.0 2.0 4.0 0 1/7 **GRAB** OIL & GREASE mq/L PERMIT REQUIREMENT 0.0 10.0 15.0 SAMPLE 0.06 0.06 0.06 MEASUREMENT 1/30 GRAB ma/L PHENOLS PERMIT 0.0 0.5 0.7 REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT CCRITY UNDER PENALTY CELAW TIME THAS DOCUMENT AND ALL AT TACHREN'S THERE PREMARED UNDER MY DIRECTION OR BUDE PURCHAS WAS COMMINIONED WHICH A SYSTEM DESCRIBED TO ASSURE HAVE OWN THE DEFENDANCE PROPERTY COMMINIONED THE PROPERTY OF SHEET AND ASSURE HAVE STREET, OR TIMES FROM AN AND ASSURE THAS STREET, OR TIMES FROM ON HAVE OF THE PERSON OF PERSONS WITHOUT HE HAVE HAVE TOWN THE WORK AND SHEET, INC. ACCURATE AND COMMENTED HE TO THAT HAVE AND COMMENTED HE WORK AND ASSURED HAVE THAT THERE ARE SCONING WAS FROM THE AND COMMENTED. HE AND COMMENTED HE AND COMMENTED HE THAT THERE ARE SCONING WAS FROM THE ADDRESSED HAVE THE AND THE POSSIBLITY OF FINE AND THE POSSIBLITY OF THE POSSIBLITY OF THE POSSIBLITY OF THE AND THE POSSIBLITY OF THE POSSIBLITY OF THE POSSIBLITY OF THE POSSIBLITY OF THE AND THE POSSIBLITY OF THE POSSIBLITY. NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE Kamerer 503, 286-3681 03 04 01 R. D. Collins SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TYPED OR PRINTED NUMBER YEAR MO DAY COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

March 3, 2003

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of February 2003.

For the month, we had two regular discharges of our 220,000-gallon storage tanks, for a total discharge of 440,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on the following days: February 17<sup>h</sup> and 18th. There were no excursions during the month.

Please also note that we have changed our company name effective February 24, 2003 from Koppers Industries, Inc. to Koppers Inc.

If you have any questions, I can be reached at #503/286-3681 or via e-mail at: <a href="mailto:kamereras@koppers.com">kamereras@koppers.com</a>

Sincerela

mos S. Kamerer

M. Pronold, City of Portland, Environmental Services

T. Self, KII

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John	(initials/date)
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NAME

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)
[2-16] [17-19]

PERMITTEE NAME/ADDRESS (Include Facility Named occidion if Different)

Koppers Industries, Inc.

Form Approved.

Approval expires 05-31-98

6/03 # of pages



Amos S. Kamerer

Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-285-2831

February 6, 2003

From

Co.

7671

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais.

Attached please find subject report for the month of January 2003, including the 1st quarter PAH results.

Post-it® Fax Note

Phone

Fax #

For the month, we had four regular discharges of our 220,000-gallon storage tanks, for a total discharge of 880,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on the following days: January 3<sup>rd</sup>, 14<sup>th</sup>, 15<sup>th</sup> and 24th.

Additionally, on January 31<sup>st</sup> we experienced flooding at the plant from the severe storm that started on the 30<sup>th</sup>. I have calculated that we discharged another 2,126,600 gallons of storm water out of the tank farm from this event, as follows:

Friday January 31: 1,438,600 gallons total; 885,600 gallons through the out fall that feeds into the Columbia River; 553,000 gallons was pumped from the tank farm out back behind our pencil pitch storage buildings.

Saturday February 1: 688,000 gallons total; 369,000 gallons to the out fall; 319,000 gallons behind the pencil pitch storage buildings.

The storm water pumped behind the pencil pitch storage buildings simply percolated back into the ground.

Finally, for the record, due to the flood event, I felt that it best to include the discharge that occurred on February 1st with this January data, thus, it will not be included in the February DMR.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely,

lmos S. Kamerer

C: M. Propold, City of Portland, Environmental Services

T. Self, KII

Fax: 503-285-2831



FROM : KOPPERS INDUSTRIES, INC

Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

Telephone: 503-286-3681

1⊆

12-13

February 6, 2003

Amos S. Kamerer Flant Manager

> Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais.

Attached please find subject report for the month of January 2003.

For the month, we had four regular discharges of our 220,000-gallon storage tanks, for a total discharge of 880,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on the following days: January 3<sup>rd</sup>, 14<sup>th</sup>, 15<sup>th</sup> and 24th.

Additionally, on January 31st we experienced flooding at the plant from the severe storm that started on the 30th. I have calculated that we discharged another 2, 126,600 gallons of storm water out of the tank farm from this event, as follows:

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The storm water pumped behind the pencil pitch storage buildings simply percolated back into the ground.

Finally, for the record, due to the flood event, I felt that it best to include the discharge that occurred on February 1<sup>st</sup> with this January data, thus, it will not be included in the February DMR.

If you have any questions, I can be reached at #503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerel

Mos∕S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

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EPA Form 3320-1 (10-96)

NAME

ADDRESS

**FACILITY** 

PERMITTEE NAME/ADDRESS (Include Facility Names occasion II Differenti

Koppers Industries, Inc.

7540 NW Saint Helens Road

Portland, OR. 97210-3663

Northwest Terminal LOCATION FROM 03 01 01 to 03 01 (3) NOTE: Read instructions before completing this form Multnomah County (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) QUANTITY OR LOADING (3 Card Only) (48-63) QUALITY OR CONCENTRATION FREQUENCY (4 Card Only) PARAMETER (32-37) NO. SAMPLE TYPE (54·81) (64-81) (48-63)ANALYSIS (82-83) AVERAGE MINIMUM AVERAGE MIMIXAM UNITS (64-68) MAXIMUM LINITS (89-70) SAMPLE. FLOW 1993, 12-13 CALC Ω MEASUREMENT N/A CPD SEE COVER LETTER PERMIT REQUIREMENT SAMPLE 0 GRAB MEASUREMENT 10.2 11.6 14..8 0 TEMPERATURE PERMIT C N/A N/A N/A REQUIREMENT SAMPLE MEASUREMENT 69 0 1/7 GRAB SU PH PERMIT REQUIREMENT 6.0 9.0 SAMPLE 1/7 0 GRAB MEASUREMENT <2.0 10 4:0 OIL & GREASE ma/L PERMIT REQUIREMENT 0.0 10.0 15.0 SAMPLE 0.07 0:07 0.07 MEASUREMENT 1/30 GRAB mg/L PHENOLS PERMIT REQUIREMENT 0.0 0.5 0.7 SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT CERRINY UNDER PENALTY OF LAWY THAT THIS DOCUMENT AND ALL ALD DIMENT IS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WHITH A SYSTEM DESCRIBED TO ADSUME HIM DESCRIBED AND ADSUME HAD DESCRIBED FROM A CAPIFER AND EVALUATE THE UP OFFIRM HAD SURMITHED AND EDGE OF THE PERSONS OF THE PERSONS WHICH MANAGE THE SYSTEM, DRY THOSE PERSONS OFFIRE DIRECTLY RESPONSED FOR GATHERING IT HE HAD FROM A HAD FROM A THE MANAGE THE SYSTEM, DRY THOSE PERSONS OFFIRE ADDITIONAL AND COLUMN AND A THE PERSONS OFFI THE ADOLINATE, AND COLUMN AND ADDITIONAL FOR AN ADDITIONAL AND COLUMN AND ADDITIONAL OF THE ADDITIONAL AND COLUMN AND ADDITIONAL OF THE ADDITIONAL AND COLUMN AND ADDITIONAL OFFI AND ADDITIONAL OFFI AND ADDITIONAL AND COLUMN AND ADDITIONAL OFFI AND ADDITIONAL AND COLUMN AND ADDITIONAL OFFI AND ADDITIONAL AND A NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE Kamerer 503, 286-368 R. D. Collins 03 02 06 IGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TYPED OR PRINTED NUMBER YEAR MO DAY COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM INPOES)
DISCHARGE MONITORING REPORT (DMR)
[2-16] (17-19]

MONITORING PERIOD

001

DISCHARGE NUMBER

YEAR MO DAY

OR-000077-9

PERMIT NUMBER

YEAR MO DAY

Form Approved. OMB No. 2040-0004

47430 1

Check here If No Discharge

CC: M. Pronold, City of Portland; T. Self, KII; B. Baumna, KII

101642

Approval expires 05-31-98

PAGE 1 OF 1





## CERTIFICATE OF ANALYSIS

CLIENT: Koppers industries, inc.

7540 NW St. Helens Road

Portland OR, 97210-3663

ATTN: Amos Kamerer

PHONE: (503) 286-3681

FAX: (503) 285-2831

PROJECT NAME: Stormwater Tests

SUBMITTED: 01/02/03 09:05

REPORT DATE	: 01/06/03 14:44	REPORT NUME	3ER: 30102	01			PAGE: 1 OF 1
CI SAMPLE	CLIENTS ID#		DA	TE TIME	MATRIX		
3010201-01	Stormwater Tanks		01/	02/2003 0830	Water		
SAMPLE/ ANALYSIS	метнор	PARAMETER	RESULTS	UNITS	DETECTION	TECH	DATE/TIME
3010201-01	SAMPLE ID: Storm	vater Tanks					
General Bench A	Analysis						•
O&G, TOTAL (HEM	) EPA 1664	TOTAL OIL AND GREASE	ND	mg/L	2	DR	01/02/2003 14:12
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	0.070	mg/L	0.050	RGR	01/06/2003 14:20
Semi-Volatile Or	rganics by Gas Chro	matography/Mass Spectroscopy					
PNAH 625	EPA 625 (SIM)	ACENAPHTHENE	4.9	ug/L _	0.04	DM	01/03/2003 11:35
	` '	ACENAPHTHYLENE	0.5	ug/L	0.04		
		ANTHRACENE	1.6	ug/L	0.04		
		BENZO(8)ANTHRACENE	3.2	ug/L	0.04		
		BENZO(a)PYRENE	4.3	ug/L	0.04		
		BENZO(b)FLUORANTHENE	3.2	ug/L	0.04		
		BENZO(g,h,i)PERYLENE	2.5	ug/L	0.04		
		BENZO(IOFLUORANTHENE	3.6	ug/L	0.04		
		CHRYSENE	4.2	ug/L	0.04		
		DIBENZO(a,h)ANTHRACENE	0.7	ug/L	0.04		
		FLUORANTHENE	11.8	ug/L	0.04		
		FLUORENE	1.2	ug/L	0.04		<i>:</i>
		INDENO(1,2,3-od)PYRENE:	2.6	ug/L	0.04		
	•	NAPHTHALENE	2.5	ug/L	0.04		
		PHENANTHRENE	2.4	ug/L	0.04		
		PYRENE	8.5	ug/L	0.04		•
		Surrogate: Nitrobenzene-D5	76.4 %	%RECOVER	Y 50-150		
		Surrogate: p-Terphenol-d1-l	98.2 %	%RECOVER	Y 50-150		

This report may not be reproduced except in full.

Authorized for Release By:

David T. Back - Quality/Systems Manager

COLUMBIA INSPECTION, INC.

7133 N. Lombard, Portland, OR 97203 Phone:(503) 286-9464 Fax:(503) 286-5355 E-mail:lab@ColumbiaInspection.com

FROM : KOPPERS

FAX NO. :5032852831

KOPPER
--------

**FAX TRANSMITTAL** 

7540 N.W. Saint Helens Rd. Portland. Oregon 97210-3663 Phone: (503) 286-3681 Fax: (503) 285-2831 Web Page: www.koppers.com

TO: TRAC: SELF	DATE: 4/10/05
FROM: Amos	TOTAL # OF PAGES: 3
3 Rd + 4 th Qtr. PAH	test results for 2002
	•

IF THIS TRANSMITTAL IS IN ERROR, PLEASE CALL 503-286-3681 FAX:# 503-285-2831



#### CERTIFICATE OF ANALYSIS

CLIENT: KOPPERS INDUSTRIES, INC.

7540 NW ST. HELENS ROAD

PORTLAND OR 97210-3663

PHONE: (503) 286-3681

FAX: (503) 285-2831

DATE SUBMITTED: 09/12/20

PROJECT NAME: STORM WATER ANALYSIS

CI SAMPLE CLIENTS ID# DATE TIME MATRIX DESCRIPTION

01772-001 09/12/2000 10(0 Water STORM WATER TANK GRAB WATER SAMPLE

REPORT DATE: 09/14/2000 PREPORT NUMBER: 01772 PAGE: 1 OF

REPORT DA	TE: 09/14/2000	REPORT NUMBER:	PAGE: 1 OF 1			
SAMPLE	eler////	PARAMETER	RESU,78	twits	DETECTION LIMIT	analyst
STORM WATER	TANK GRAB WATER SAMPLE				****	
01772-001	O & G TOTAL (HEM) EPA 1664	TOTAL OIL AND GREASE	3.1	mg/L	2	Gordon L 09/12/2000
STORM WATER	TANK GRAB WATER SAMPLE	SAMPLE ID:			· · · · · · · · · · · · · · · · · · ·	•
01,772-001	PHENOLS, TOTAL EPA 420.1	TOTAL RECOVERABLE PHENOLICS	0.18	mg/L	0.05	Jeremy B 09/14/2000
STORM WATER	TANK GRAB WATER SAMPLE	SAMPLE ID:	·- <del></del>	····		7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
01772-001	PNAH 2 EPA 625 (SIM)	ACENAPHTHENE ACENAPHTHYLENE ANTHRACENE BENZO(A) ANTHRACENE BENZO(A) PYRENE BENZO(B) FLUORANTHENE	20 5.1 2.8 2.0 1.7	ug/L ug/L ug/L ug/L ug/L	0.05 0.05 0.05 0.05 0.2	Jacob F 09/14/2000
		BENZO(GHI) PERYLENE BENZO(K) FLUORANTHENE CHRYSENE DIBENZO(AH) ANTHRACENE FLUORANTHENE FLUORENE	1.2 1.6 2.8 0.74 8.2 8.1	ug/L ug/L ug/L ug/L ug/L	0.5 0.2 0.05 0.3 0.05 0.05	
e e		Indeno (1, 2, 3-cd) pyrene naphthalene phenanthrene pyrene	1.0 1.8 0.91	ug/L ug/L ug/L ug/L	0.05 0.05 0.05 0.05	,
		SURROGATE	95%	% RECOVERY	50%-150%	

### RECEIVED

SEP 1 8 2000

ORIGINAL

KOPPERS INDS, INC. PORTLAND OR

REVIEWED BY:

Martin Little - Quality Manager



### CERTIFICATE OF ANALYSIS

CLIENT: KOPPERS INDUSTRIES, INC.

7540 NW ST. HELENS ROAD

PORTLAND OR 97210-3663

PHONE: (503) 286-3681

FAX: (503) 285-2831

DATE SUBMITTED: 10/10/20

PROJECT NAME: STORM WATER TANKS

CI SAMPLE CLIENTS ID DATE TIME MATRIX DESCRIPTION

01943-001 10/10/2000 1000 Water STORM WATER TANK WATER GRAB SAMPLE

report da	TE: 10/12/2000	REPORT NUMBER:	01943		· · · · · · · · · · · · · · · · · · ·	PAGE: 1 OF
Bample	BİRLINA	PARAMETER	results	UNITS	DETECTION LIMIT	AMALIST
STORM WATER	TANK WATER GRAB SAMPLE					
01943-001	O & G TOTAL (HEM)	TOTAL OIL AND GREASE	ממ	mg/L	2	Gordon L 10/12/2000
STORM WATER	TANK WATER GRAB SAMPLE				<u> </u>	
01943-001	PHENOLS, TOTAL EPA 420.1	TOTAL RECOVERABLE PHENOLICS	0.06	mg/L	0.05	Jeremy B 10/11/2000
STORM WATER	TANK WATER GRAB HAMPLE					
01943-001	FNAH 2	ACENAPHTHENE	0.60	ug/L	0.05	Dave M
	EPA 625 (9IM)	ACENAPHTHYLENE	0.14	ug/L	0.05	10/11/2000
		ANTHRACENE	0.66	ug/L	0.05	
		BENZO (A) ANTHRACENE	2.1	ug/L	0.05	
		BENZO (A) PYRENE	2.8	ug/L	0.2	
		BENZO (B) FLUORANTHENE	3.4	ug/L	0.2	
		BENZO (GHI) PERYLENE	2.9	ug/L	0.5	
		BENZO (K) FLUORANTHENE	3.4	ug/L	0.2	
		CHRYSENE	3.3	ug/L	0.05	
		DIBENZO (AH) ANTHRACENE	1.5	ug/L	0.3	
		FLUORANTHENE	4.1	ug/L	0.05	
		FLUORENE	ND	ug/L	0.5	
		INDENO(1,2,3-CD)PYRENE	2.7.	ug/L	0.4	
		naphthalene	ND	ug/L	0.5	
		PHENANTHRENE	1.4	ug/L	0.05	
		PYRENE	3.5	ug/L	0.05	
		SURROGATE	102	% RECOVER	r 50%-1.50%	

Brutrurn av.

Martin Little - Quality Manager



FROM : KOPPERS INDUSTRIES, IN

Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

Amos S. Kamerer

Telephone: 503-286-3681 Fax: 503-285-2831

January 7, 2003

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of December 2002.

For the month, we had seven discharges of our 220,000-gallon storage tanks, for a total discharge of 1,540,000 gallons. This was discharged over 7 days, for an average "slug" discharge of 220,000 gallons per day, on the days of December 13<sup>th</sup>, 17<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup>, 21<sup>st</sup>, 30th and 31st.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely

Amos S. Kamerer

GE. M. Pronold, City of Portland, Environmental Services

T. Self, KII

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EPA Form 3320-1 (10-98)

PERMITTEE NAME/ADDRESS (madds Facility Name Cocollon & Different) NAME Koppers Industries, Inc.  ADDRESS 7540 NW Saint Helens Road Portland, OR. 97210-3663		nđ	DISCHARGE MONITORING REPORT (DMR) (2-16) (17-19)  OR-000077-9 001 47430 PERMIT NUMBER DISCHARGE NUMBER 101642			Form Approved. OMB No. 2040-0004 Approval expires 05-31-98					
ACILITY Northwest Te OCATION Multnomah Co	erminal		FROM 02 (20-21)	MO DA 12 O (22-23) (24-2	I TO 02 (26-27) (2	MO DAY 12 31 N	Chack frem If NOTE: Read Ins	•			
PARAMETER (32-37)		(46-53)	ANTITY OR LOAD! (54-81)	<del></del>	(38.45)	ALITY OR CONCE	(54-01)		NO.	PREQUENCE OF ANALYSIS (84-88)	BAMPLE TYPE
FLOW	SAMPLE	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	+-	1	·
SEE COVER LETTER	MEASUREMENT	<del></del>	! 	GPD		ļ	·		ļ	N/A	CALC
SEE COVER BETTER	PERMIT REQUIREMENT			<u> </u>							
	SAMPLE MEASUREMENT	_			9.5	10.6	11.1		0	1/7	GRAB
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(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

PAGE 1 OF 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (RPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)



Amos S. Kamerer

Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

Telephone: 503-286-3681 Fax: 503-285-2831

December 4, 2002

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of November 2002.

For the month, we had two discharges of our 220,000 gallon storage tanks, for a total discharge of 440,000 gallons. This was discharged over 2 days, for an average "slug" discharge of 220,000 gallons per day, on the days of November 15th and 22<sup>nd</sup>.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: <a href="mailto:kamereras@koppers.com">kamereras@koppers.com</a>

Sincereb

mos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

Environmentar Department Document Control								
Date Received Lagged Fxcuphors:	12	902	(initials/date)					
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P.02/0	PERMITTEE NAME/ADDRESS (Include Fedility Name Location & Office and) NAME Roppers Industries, Inc.			DISCI	HARGE MON (2-15)	HARGE ELIMINATION BY DITORING REPORT	(DMR) (17-19)	.= iob'		OMB N	pproved. b. 2040-00 al expiras (	104 05-31	-98
	ADDRESS 7540 NW Saint Helens Road			OR-00077-9 001 4743 PERMIT NUMBER DISCHARGE NUMBER			47430						
#250	Portland, OR,	97210–366	3 ·		MON	TORING PERIOD		101642					
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13:49	PARAMETER (32-37)		(3 Card Only) Ol (48-53)			(4 Card Only) QUALITY OR CONCE!		NTRATION (54-81)		NO.	FREQUENC OF ANALYSIS	Y 84	SAMPLE TYPE
	(32-31)		AVERAGE	MUMIKAM	UNITS	MINMUM	AVERAGE	MAXIMUM	UNITS	(82-63)	(64-66)	18	10-70)
	PLON	SAMPLE MEASUREMENT	220,000		GPD					0	N/A	C	ALC.
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782 782	OIL & GURADE	PERMIT REQUIREMENT				0.0	10.0	15.0	mg/L				
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Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

10:26

Amos S. Kamerer Flant Manager Telephone: 503-286-3681 Fax: 503-285-2831

November 5, 2002

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of October 2002, including the PAH analysis for the 4<sup>th</sup> quarter.

As a follow up to our conversation today, we have decided to change the way we are reporting our average daily discharge information on the DMR. As you know, we have 6 tanks dedicated to storm water collection service that hold a total of 220,000 gallons. When these tanks are full, we sample and then do not discharge the storm water until after we have the antilicatal data form the laboratory, to assure that we do not have a permit excedance.

In the past, we would report the average daily discharge by taking the total number of discharges during the month for the 6 tanks and then dividing that quantity by the number of days per month. We have decided that to more accurately report the discharge information, we should take the total quantity of storm water discharged each month and divide that by the number of days of actual discharge; as an amount of "slug" discharge per day, for the given month.

Thus, for the month of October, we had one discharge during the month of 220,000 gallons, which was discharged over 2 days, for an average "slug" discharge of 110,000 gallons per day, on the days of October  $1^{st}$  and  $2^{nd}$ .

Thanks again, for you're in put on this matter.

If you have any questions, I can be reached at #503/286-3681 or via e-mail at: kamereras@koppers.com

Sincere

pros S. Kamerer

: M. Pronold, City of Portland, Environmental Services

T. Self, KII M. Cilley, KII

Envir	onmen. Docume	ai Departi nt Control	ment
Date Received  Logged &	11/2	15/12	(initials/date)
Approved: Distribution:	Leslie	Je/m	(initials, date)
Copy to:	Tim Mary	inio) rieativer	-nda
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Koppers003112

PERMITTEE NAME/ADDRESS (Include Facility Name/Location If Different) NATIONAL POLITICANT DISCHARGE FLIMINATION SYSTEM INPOESI Form Approved.
OMB No. 2040-0004 DISCHARGE MONITORING REPORT (DMR) NAME Koppers Industries, Inc. (2-18) (17-19) Approval expires 05-31-98 OR-000077-9 001 47430 ADDRESS 7540 NW Saint Helens Road PERMIT NUMBER DISCHARGE MUMBER Portland, OR. 97210-3663 101642 MONITORING PERIOD ☐Check here if No Discharge YEAR MO DAY FACILITY Northwest Terminal YEAR MO DAY LOCATION 10 31 02 10 01 02 NOTE: Read instructions before completing this form Multnomah County (20-21) (22-23) (24-25) (28-27) (28-29) (30-31) QUANTITY OR LOADING QUALITY OR CONCENTRATION (3 Card Only) 14 Card Oply REQUENCY OF ANALYSIS SAMPLE PARAMETER [54-61] TYPE (32-37) UNITS (B2-B3) **AVERAGE** MUMIXAM UNITS MINIMUM AVERAGE MAXIMUM (64-68) (69-70) SAMPLE 110,000 CALC FLOW N/A MEASUREMENT **GPD** SEE COVER LETTER PERMIT REQUIREMENT SAMPLE 17.6 18.5 1/7 20.2 **GRAB** 0 MEASUREMENT 0 TEMPERATURE PERMIT C REQUIREMENT N/A N/A N/A SAMPLE 8.9 7.0 7.1 MEASUREMENT **GRAB** SU PH PERMIT REQUIREMENT 6.0 9.0 SAMPLE MEASUREMENT <2:0 <2.0 <2.0 0 **GRAB** OIL & GREASE ma/L PERMIT REQUIREMENT 0.0 10.0 15.0 SAMPLE MEASUREMENT < 0.05 <0.05 <0.05 1/30 GRAB mq/L PHENOIS PERMIT 0.0 0.5 0.7 REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT I DERTIEY VINDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL A) DUCKHISHT IS WERE PREPARED IN JERUTY OF LAW THAT THIS DOCUMENT AS WERE PERSONED TO ASSURE IN JERUTY OF THE PERSONED TO ASSURE AND EXALIZATE THE INJURIAL MAY DESTRUCTED THAT DAM, INSTERD PERSONED, PEPPERSON OR PERSONS WHO MANAGE THE SYSTEM, OR HIGGE BASED ON MY INDURATY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR HIGGE PERSONS WHO MANAGE THE SYSTEM, OR HIGGE BERDON THE PERSON OF NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE 503, 286-3681 02 11 05 Kamerer R. D. Collions SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TYPED OR PRINTED NUMBER YEAR MO DAY

CC: M. Pronold, City Portland; T. Self, KII; M.Cilley, KII

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)





# CERTIFICATE OF AN

CLIENT: Koppers Industries, Inc.

7540 NW St. Helens Road

Portland OR, 97210-3663

ATTN: T.J. Turner

PHONE: (503) 286-3681

FAX: (503) 285-2831

PROJECT NAME: quarterly stormwater test

چر

SUBMITTED: 09/30/02 13:41

CI SAMPLE

CLIENTS ID#

DATE

TIME

MATRIX

2093006-01	Stormwater Tanks	002 1200 Wa	ter				
REPORT DATE	10/03/02 12:57	REPORT NU	MBER: 20930	006			PAGE: 1 OF 1
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME
2093008-01	SAMPLE ID: Stormwa	nter Tanks					
General Bench A	nalysis						
O&G, TOTAL (HEM	) EPA 1664	TOTAL OIL AND GREASE	ND	mg/L	2	сх	10/01/2002 09:50
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	ND	mg/L	0.050	RGR	09/30/2002 16:31
Semi-Volatile Or	ganics by Gas Chron	natography/Mass Spectroscopy				<u> </u>	
PNAH 625	EPA 625 (SIM)	ACENAPHTHENE	0.2	ug/L	0.05	RVM	10/01/2002 14:19
		ACENAPHTHYLENE	0.1	ug/L	0.05		
		ANTHRACENE	0.6	ug/t.	0.05		
		BENZO(a)ANTHRACENE	1.3	ug/L	0.05		
		BENZO(a)PYRENE	2.2	ug/L	0.05		
		BENZO(b)FLUORANTHENE	1.9	ug/L	0.05		
		BENZO(g,h,l)PERYLENE	1.5	ug/L	0.05		
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		NAPHTHALENE	0.2	ug/L	0.05		
		PHENANTHRENE	1.1	ug/L	0.05		
		PYRENE	2.1	ug/L	0,05		•
		Surrogate: 2-Fluorobiphenyl	54.9 %	%RECOVERY	50-150		
		Surrogate: Nitrobenzene-D5	56.2 %	<b>%RECOVERY</b>	50-150		
		Surrogate: p-Terphenol-d14	65.7 %	%RECOVERY	50-150		

This report may not be reproduced except in full.

Authorized for Release By:

David T. Back - Quality/Systems Manager

COLUMBIA INSPECTION, INC

7133 N. Lombard, Portland, OR 97203 Phone: (503) 286-9484 Fax: (503) 286-5355 E-mail: lab@Columbia/napection.com



Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3881 Fax: 503-285-2831

October 1, 2002

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of September 2002.

There were no discharges for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: <a href="mailto:kamereras@koppers.com">kamereras@koppers.com</a>

Sincerely

Xmøs S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

Enviro D	ocumei	Departi nt Control	mesit L
Date Received	Leslie	Jens Paci	(initials/date)  (initials/date)  Patrick Unda
Copy to: _	Mary Dal	Heather	4/12

Koppers003116

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
12-161 (17-18) PERMITTEE NAME/ADDRESS (Include Facility Normal Location 7 Oillareit) Form Approved. OMB No. 2040-0004 NAME Koppers Industries, Inc. Approval expires 05-31-98 OR-000077-9 **ADDRESS** വ 47430 7540 NW Saint Helens Road PERMIT NUMBER DISCHARGE NUMBER Portland, OR. 97210-3663 101642 MONITORING PERIOD Check here if No Discharge FACILITY YEAR MO DAY Northwest Terminal YEAR I MO DAY LOCATION FROM 02 09 01 02 | 09 | 30 NOTE: Read Instructions before completing this form 13:03 Multnomah County (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) (3 Card Only) QUANTITY OR LOADING QUALITY OR CONCENTRATION (4 Card Only) (38-45) FREQUENCY PARAMETER (32-37) BAMPLE /54-81) 148-53 (46-53) (54-81) TYPE ANALYSIS **AVERAGE** MAXIMUM UNITS MINIMUM AVERAGE LINERS (62-63) MAXIMUM (84-89) (89-7D) SAMPLE 2002, 10-01 MEASUREMENT 0 N/A EST. **GPD** FLOW PERMIT REQUIREMENT SAMPLE MEASUREMENT 0 1/7 GRAB **TEMPERATURE** PERMIT REQUIREMENT C N/A N/A N/A SAMPLE MEASUREMENT 0 GRAB SU PH PERMIT 6.0 REQUIREMENT 9.0 SAMPLE MEASUREMENT 0 1/7 GRAB OIL & GREASE mg/L PERMIT REQUIREMENT 0.0 10.0 15.0 SAMPLE MEASUREMENT 0 1/30 **GRAB** mg/L **PHENOLS** PERMIT REQUIREMENT 0.5 0.7 0.0 SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
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Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

Telephone: 503-286-3681

Fax: 503-285-2831

September 3, 2002

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

**Discharge Monitoring Report** 

Dear Mr. Zais,

Attached please find subject report for the month of August 2002.

There were no discharges for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely,

Arnes S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

M. Cilley, KII

The gold

CC: M. Pronold, City Portland; T. Self, KII; M.Cilley, KII



Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

Amos S. Kamerer Plant Managar Telephone: 503-285-3681 Fax: 503-285-2831

August 1, 2002

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of July 2002.

There were no discharges for the month.

If you have any questions, I can be reached at #503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely

mos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

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NAME

PERMITTEE NAME/ADDRESS (Include Facility Manus/Location if Different)

ADDRESS 7540 NW Saint Helens Road

Koppers Industries, Inc.

EPA Form 3320-1 (10-98)

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(17-19)

001

Form Approved. OMB No. 2040-0004 Approval expires 05-31-98

47430

CC: M, Pronold, City Portland; T. Self, KII; M.Cilley, KII

PAGE 1 OF 1



Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-285-2831

July 1, 2002

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention. Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of June 2002.

There were no discharges for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely

Amøs S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services

T. Self, KII

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
17-181 (17-19) PERMITTEE NAME/ADDRESS (Include Facility Name/Location # Officeret) Form Approved. OMB No. 2040-0004 Koppers Industries, Inc. Approval expires 05-31-98 OR-000077-9 001 47430 **ADDRESS** 7540 NW Saint Helens Road DISCHARGE NUMBER PERMIT NUMBER Portland, OR, 97210-3663 101642 MONITORING PERIOD Check here if No Discharge **FACILITY** YEAR I MO DAY YEAR MO DAY Northwest Terminal LOCATION FROM U2 06 01 02 .06 NOTE: Read Instructions before completing this form Multnomah County (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) (3.Card Only) (48-53) QUANTITY OR LOADING **CUALITY OR CONCENTRATION** FREQUENCY /4 Card Only) NO. PARAMETER . (32-37) BAMPLE (54-81) 154-613 138-45) (48-63) ANALYSIS (64-68) 182-835 AVERAGE MINIMUM AVERAGE MAXIMUM UNITS MAXIMUM UNITS (69-70) SAMPLE MEASUREMENT 0 N/A EST. **GPD** PLOW PERMIT REQUIREMENT SAMPLE 0 GRAB MEASUREMENT 0 TEMPERATURE PERMIT N/A N/A REQUIREMENT N/A SAMPLE MEASUREMENT 0 1/7 **GRAB** SU PH PERMIT REQUIREMENT 6.0 9.0 SAMPLE MEASUREMENT 0 GRAB OIL & GREASE mq/L PERMIT REQUIREMENT 0.0 10.0 15.0 SAMPLE MEASUREMENT 1/30 **GRAB** mq/L PHENOLS PERMIT 0.0 0.5 0.7 REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT CERTIFY UNDER PENALTY OF LIGHTIANT HIS DOCUMENT AND ALL ATTACHMENT BY FIRE PREPARED LINNER BY DIRECTION OR BY PETRABONIN ACCORDANCE WITH A SYSTEM DESIGNED TO ABBURE THAT DIAMETER BY DIRECTLY RESIDE PROPAGATION OF QUALIFIE AND EXPLAINT THE BHORDANION HIS BURNING BASED ON MY INDURARY OF THE PERSONS WITHO MANAGET HE SYSTEM, OR IT MOSE PERSONS WITHOUT AND THE CHILD HE SHOULD BE STATED THE WHORMAND HE HE FOR SHOULD HE HE COLUMN THE CHILD BY STATED AND COLUMN THE WHORMAND HE HE FOR ALL PROPAGATION THE HIS PACHASING HE HAD COLUMN THE ALL PROPAGATION AND COLUMN THE WAS BEEN THAT THERE ARE SECURIFIED FOR SHOULD BE FOR SHOULD HE FOR SHOULD BY SHOULD BE SHOULD BE SHOULD BE SHOULD BE SHOULD BY SHOULD BE SHOULD BY SHOUL NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE ŝ. 503, 286-3681 02 07 Kamerer 01 R. D. Collions SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT AREA

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: J. Holtrop, City Portland; T. Self, KII; M.Cilley, KII

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YEAR

TYPED OR PRINTED



Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3863

> Telephone: 503-286-3881 Fax: 503-285-2831

June 5, 2002

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of May 2002.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: <a href="mailto:kamereras@koppers.com">kamereras@koppers.com</a>

Sincerek

Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services

T. Self, KII

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OR-000077-9 กกา 47430 ADDRESS 7540 NW Saint Helens Road PERMIT NUMBER DISCHARGE NUMBER Portland, OR. 97210-3663 101642 MONITORING PERIOD ☐Check here If No Discharge YEAR MO DAY YEAR MO DAY **FACILITY** Northwest Terminal LOCATION 02 05 03 FROM TO 05 বা 02 NOTE: Read instructions before completing this form Multnomah County (20-21) (22-23) (24-25) (28-27) (28-29) (30-31) (3 Card Only) QUANTITY OR LOADING QUALITY OR CONCENTRATION FREQUENCY OF ANALYSIS (4 Card Only) NO. BAMPLE PARAMETER (48-53) (54-B1) (38-45) (46-53) (54-61) (32-37) (82-63) AVERAGE MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS (64-66) (89-70) SAMPLE. 7.097 0 N/A EST. MEASUREMENT **GPD** FLOW: PERMIT REQUIREMENT SAMPLE 0 1/7 GRAB 23.2 23.6 23.9 MEASUREMENT 0 TEMPERATURE PERMIT C N/A N/A N/A REQUIREMENT SAMPLE MEASUREMENT 6.8 6.7 6.8 O GRAB SU PH PERMIT REQUIREMENT 6.0 9.0 SAMPLE MEASUREMENT 4.3 4.3 4.3 1/7 **GRAB** OIL & GREASE mq/L PERMIT REQUIREMENT 0.0 10.0 15.0 SAMPLE <0.05 <0.05 0 1/30 **GRAB** MEASUREMENT < 0.05 mg/L PHENOLS PERMIT <0.0 0.5 0.7 REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT CERTIFY UNDER POWATY OF LAW THAT THE GOOD MENT AND ALL AT DICEMENTS WORSE PREMARED UNDER MY CHRECTERY OR ELLIPERTISHOM IN ACCORDANCE WITHIN BYSIEM DESIGNED TO ASSULTE THAT CHARLES DERRORMED HANDON OR OR POWER AND ALL HE FOR MARKETS REBUILT TENDER THAT CHARLES OF MY WADLING YOU THE PROPRIOR OR PERSONNE WHO ANALOSE THE SYSTEM, OR I HODE PERSONNE DIRECTLY REPROPRINGING FOR GAYLLEUNG IT HE WAD VANDATION, THE INFORMATION BUBBITED IN TO THE BEST OF MY INVOICED OR AND CLIEF, THAT, ACCURATE, AND COMMETTE ANALOSE THAT THATE ARE BY STORPHOUT FEMALTIES FOR SAIGHTING AND COMMETTE ANALOSE THAT THATE ARE BY STORPHOUT FEMALTIES FOR SAIGHTING AND COMMETTE UNDER THAT THATE ARE STORPHOUT FEMALTIES FOR SAIGHTING AND COMMETTE POSSIBLITY OF ANE AND SAPPLED WHENT FOR KNOWING VIOLATIONS, BEET MY USE, 6 1001 AND 31 U.B.C. § 1112. (PRINCE DE LITTER OF A SIGNATION OF THE POSSIBLITY OF ANE AND SAPPLED WHENT FOR KNOWING VIOLATIONS, BEET MY USE, 6 1001 AND 31 U.B.C. § 1112. (PRINCE DE LITTER OF A SIGNATION OF THE POSSIBLITY OF ANE AND SAPPLED WHENT FOR KNOWING VIOLATIONS. NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE 02 06 05 503, 286-3681 Kamerer R. D. Collions SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TYPED OR PRINTED NUMBER YEAR MO DAY COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLICIANT DISCHARGE FLIMINATION SYSTEM INPOESS

DISCHARGE MONITORING REPORT (DMR)

CC: J. Holtrop, City Portland; T. Self, KII; M.Cilley, KII

Form Approved. OMB No. 2040-0004

Approval expires 05-31-98

PERMITTEE NAME/ADDRESS (Include Feelilly Name/Location & Different)

Koppers Industries, Inc.

07:49



Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

Amos S. Kamerer Plant Managor Telephone: 503-286-3681 Fax: 503-285-2831

May 2, 2002

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of April 2002, including the second quarter PAH results.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

285 3581

Sincerely

Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services

T. Self, KII

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## FROM : KOPPERS INDUSTRIES, INC. 286 3681 CE. TIFICATE OF ANALYS

CLIENT: Koppers Industries, Inc.

7540 NW St. Helens Road

Portland OR, 97210-3663

(503) 286-3681 FAX: (503) 285-2831

DATE SUBMITTED: 04/10/02 11:02

PROJECT NAME: quarterly stormwater t

PROJECT NUMBER: quarterly stor

CI SAMPLE	CLIENTS ID#			DATE	TIME	MAIRIX		
2041002-01	stormwater q	uarterly	04	/10/2002	0000	Water		
REPORT DATE:	04/15/02	09:07 REPORT	NUMBER:	2041002			Page: 1	OF 1
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041002-01	General Benc	h Analysis						
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		ANTHRACENE	3.3	ug/L	2.5	RVM	04/11/2002	16:24
		BENZO(a) ANTHRACENE	7.0	ug/L	2.5	RVM	04/11/2002	16:24
		Benzo(a) Pyrene	19.5	ug/L	2.5	RVM	04/11/2002	16:24
		Ben20(b) Fluoranthene	5.1	ug/Ĺ	2.5	RVM	04/11/2002	16:24
		BENZO(g, h, 1) PERYLENE	7.1	ug/L	2.5	RVM	04/11/2002	16:24
		BENZO(k) FLUORANTHENE	9.7	ug/L	2.5	RVM	04/11/2002	16:24
		CHRYSENE	2.9	ug/L	2-5	RVM	04/11/2002	16:24
		DIBENZO(a, h) ANTHRACENE	ND	ug/L	2.5	RVM	04/11/2002	16:24
		FLUORANTHENE	6.B	ug/L	2.5	<b>RVM</b>	04/11/2002	16:24
	•	FLUORENE	5.3	ug/L	2.5	RVM	04/11/2002	16:24
		INDENO(1,2,3-cd) PYRENE	4.6	ug/L	2.5	RVM	04/11/2002	16:24
	•	NAPHTHALENE	ND	ug/L	2.5	RVM	04/11/2002	16:24
		PHENANTHRENE	ND	ug/L	2.5	RVM	04/11/2002	15:24
		PYRENE	9-1	nò/F	2.5	RVM	04/11/2002	16:24
		Surrogate: 2-Fluorobipheny	65.6 %	*RECOVERY	50-150			
	· ·	-Surrogate: Nitropenzene-d5	86.9%	*RECOVERY	50-150			
		Surrogate: p-Terphenol-d14	102 %	*RECOVERY	50-150			

David Back - QS Manager

This report may not be reproduced except in full.

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Phone: (503) 286-9464 Fax: (503) 286-9355 E-mail: lab@ColumbiaInspection.com



Amos S. Kamerer Plant Moneger Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-285-2831

April 3, 2002

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of March 2002.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely,

Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services

T. Self, KII

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EPA Form 3320-1 (10-95)

Koppers003134

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(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

PAGE 1

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Amos S. Kamerer Plant Manager Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3881 Fax: 503-285-2831

March 1, 2002

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of February 2002.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely

Amøs S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services

T. Self, KII M. Cilley, KII

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COMMENTS AND EXPL	ANATION OF ANY VIOLATIONS	(Reference all after	chmenia here)	····								



Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-285-2831

February 4, 2002

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642 Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of January 2002. This includes the first quarter PAH test results.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

285 3681

møs S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services

T. Self, KII

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## FROM : KOPPERS INDUSTRIES, INC.

## 286 3681

CLIENT: KOPPERS INDUSTRIES, INC. 7540 NW ST. HELENS ROAD

PORTLAND OR 97210-3663 PHONE: (503) 286-3681 FAX: (503) 285-2831

DATE SUBMITTED: 01/07/2002

PROJECT NAME: STORMHATER TANKS- QUARTERLY

PHENANTHRENE

PYRENE

SURROGATE

CI SAMPLE CLIENTS ID# DATE DESCRIPTION 20029-001 01/07/2002 0900 Water Stormwater Tanks REPORT DATE: 01/08/2002 REPORT NUMBER: 20029 REV. 001 PAGE: 1 OF 1 DETECTION ANALYST SAMPLE ANDLYSIS PARAMETER RESULTS UNITS LIMIT DATE/TIME Stormwater Tanks 20029-001 O & G; TOTAL (HEM) TOTAL OIL AND GREASE 7.2 2 Gale S mg/L EPA 1654 01/08/2002 Stormwater Tanks 20029-001 PHENOLS, TOTAL TOTAL RECOVERABLE PHENOLICS 0.09 РРМ 0.05 Abigail K EPA 420.1 01/08/2002 Stormwater Tanks 20029-001 PNAH 2 ACENAPHTHENE 31.10 ug/L 0.2475 . Robert M. 4.97 0.2475 01/08/2002 EPA 625 (SIM) ACENAPHTHYLENE ug/L ANTHRACENE 8.53 սզ/L 0.2475 0.2475 BENZO (A) ANTHRACENE 3.86 ug/L 0.2475 BENZO (A) PYRENE 4.47 ug/L BENZO (B) FLUORANTHENE 6.80 ug/L 0.2475 3.65 ug/L 0.2475 BENZO (GHI) PËRYLENE BENZO (K) FLUORANTHENE 3.01 ug/L 0.2475 0.2475 4.23 CHRYSENE ug/L 0.2475 DIBENZO (AH) ANTHRACENE 2.84 ug/L 0.2475 FLUORANTHENE 10.86 ug/L FLUORENE 21.17 0.2475 ug/L INDENO(1,2,3-CD) PYRENE 3.97 ug/L 0.2475 9.30 0.2475 NAPHTHALENE uq/L

REVIEWED BY:

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158.75

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ug/L

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0.2475

% RECOVERY 50%-150%

COLUMBIA NSPECTION. NC. 7133 N. Lombard, Portland, OR 97203 Phone: (503) 288-9484 Fax: (503) 288-5355 E-mail: lab@ColumbiaInspection.com

Ø9:42



Amos S. Kamerer
Plant Manager

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Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-285-3881 Fax: 503-285-2831

January 3, 2002

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of December 2001.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely

Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services

T. Self, KII

Free comental Department Oncurrent Control	
Oate Received 30  Compared: (initials/date)  Extentions: (initials/date)	
Distribution: Leslie John Patrick Tim Traci Linda Mary Heather	
Copy to:  Date: 1802	

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location (INfferral)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helen Foad

Portland, Oregon 97210-3663

FACILITY NW Terminal

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDFS)
DISCHARGE MONITORING REPORT (DMII)

OR-000077-9 PERMIT NUMBER

OO1
DISCHANGE NUMBER

47430

101642

| MONITORING PERIOD | | YEAR | MO | DAY | YEAR | MO | DAY | OI | 12 | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 | | 31 |

NOTE: Read instructions before completing this form.

Form Approved.

OMB No. 2040-0004

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CC: J. Holtrop, City of Fortland, T. Self - KEI, M. Cilley KII



Amos S. Kamerer Plent Manager Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-285-2831

December 4, 2001

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of November 2001.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: <a href="mailto:kamereras@koppers.com">kamereras@koppers.com</a>

/////m

Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services

T. Self, KII

FR01

P.02/02	IME	NAME/ADDRESS (Include Pacifity Named Academ & Different Koppers Industries, Inc. 7540 NW Saint Helens Road Portland, Oregon 97210-3663
#621	CILITY CATION	NW Terminal Multmomab County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (MITTES) DISCHARGE MONITORING REPORT (1969)

OR-000077-9 001
PENMIT NUMBER DISCHARGE HUMBER

47430 101642

NOTE: Read Instructions before completing this form.

Forn Approved. OMB No. 2040-0004

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[P]	SAMPLE MEASUREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  SAMPLE MEASUREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  SAMPLE MEASUREMENT  PERMIT  REQUIREMENT  SAMPLE  I Carbity under panalty of law bint this document and all enhancements were prepared under my direction or supervision in accordance with a system designed to assure innet quantified personnel pinopelyly getter and evaluate the information submitted. 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CC: J. Holtrop, City of Portland: T. I. Self, KII: M. A. Cilley, KII



Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-285-2831

November 1, 2001

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of October 2001.

The forth quarter PAH results are also enclosed.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerel

raios S. Kamerer

CC. J. Holtrop, City of Portland, Environmental Services

T. Self, KII

02/03	PERMITTEE NAME/ADDRESS (hurbade Facility Name Advantage (Fifferen NAME Roppers Industries, Inc.  ADDRESS 7540 NW Saint Helens Road  Portland, OR 97210										
#556 P.	-ACILITY NW Terminal Ocation Multnomah County										
63:60	PARAMETER	AVI									
	DALLE										

NATURAL POLITIÁNI DISCHAINE ELIMITALKII SYSTEM (MYSS). DISCHARGE MONTODIUG REPORT ((MII)

DISCHARGE HUMUER

47430

MONITORING PERIOD MO DAY ΥΕΛΠ

Form Approved. OMB No. 2040-0004

PARAMETER		QUANTITY OR LOADING			QUANTITY OF CONCENTRATION				NO.	FREQUENCY OF	SAMPLE
Andricia		VAEHVUSE	MUMIXANI	UMILS	MITHM	AVEDARE	MAXIMUM	UNITS		NAT YSIS	
	SAMPLE MEASUREMENT	14,194		GDV)					0	N/A	EST.
FLOW	PERMIT REQUIREMENT			GPD							<del>-</del>
	SAMPLE MEASUREMENT				12.1	14.1	16.4	С	0	1/7	GRAB
TEMP	PERMIT REQUIREMENT				N/A	N/A	N/A				
	SAMPLE MEASUREMENT		•		6.0	6.4	6.8	SU	0	1/7	GRAE
рH	PERMIT REQUIREMENT				6.0		9.0		20 N		1 1 1 1 1
	SAMPLE MEASUREMENT	:			<b>⟨</b> 2.0	3.1	6.2	MG/L	0	1/7	GRAE
Oil & Grease	PERMIT REQUIREMENT				N/A	10	15				
	SAMPLE MEASUREMENT				<b>⟨</b> 0.05	⟨0.05	<b>(0.</b> 05	MG/L	0	1/30	GRAE
Phenols	PERMIT REQUIREMENT				N/a	.5	.7		1		
	SAMPLE MEASUREMENT	7 11, 1121 121									
	PERMIT REQUIREMENT								11 - VI		
	SAMPLE MEASUREMENT	The second second second second second	Jan								
	PERMIT REQUIREMENT										
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The fourth quarter results are attached.

cc: J. Holtrop-City of Portland; T.I. Self-KII; M.A. Cilley-KII



## CERTIFICATE OF ANALYSIS

CLIENT: KOPPERS INDUSTRIES, INC.

7540 NW ST. HELENS ROAD

PORTLAND OR 97210-3663

PHONE: (503) 286-3681

FAX: (503) 285-2831

DATE SUBMITTED: 10/08/2001

PROJECT NAME: QUARTERLY STORMWATER TANK TEST

CLIENTS IDS DATE TIME MATRIX DESCRIPTION

11506-001		08/2001 0900 Water	Stormwate:	r Tanks	<u> </u>	
REPORT DATE:	10/10/2001	REPORT NUMBER:	1506			PAGE: 1 OF 1
SMOLE A	MALYSIS	PARAMETER	KESULTS	usirs	DETECTION LIMIT	analist
Stormwater Tank	<b>S</b>			- — —		:
					•. •	
	PA 1664	TOTAL OIL AND GREASE	6.2	mg/L	2	Gale \$ 10/09/2001
Stormwater Tank	3					· :
	HENOLS, TOTAL	TOTAL RECOVERABLE PHENOLICS	ND	PPM	0.05	Abigail K
E	PA 420.1	·				10/09/2001
Stormwater Tank	5					
11506-001 P	NAH 2	ACENAPHTHENE	ND .	ug/L	0.2655	Robert M
£	PA 625 (SIM)	ACENAPHTHYLENE	ND	ug/L	0.2655	10/10/2001
**	•	ANTHRACENE	מאי	ug/L	0.2655	
		BENZO (A) ANTHRACENE	ND .	ug/L	0.2655	• •
		BENZO (A) PYRENE	ND	ug/L	0.2655	,
		Benzo (B) fluoranthene	0.35	ug/L	0.2655	. •
		Benzo (GRI) Perylene	0.27	ug/L	0.2655	•
	• • •	BENZO (K) FLUORANTHENE	ND	ug/L	0.2635	
		CHRYSENE	MD	ug/L	0.2655	
		DIBENZO (AH) ANTHRACENS	ND	ug/L	0.2655	•
		FLUORANTHENE	ND	ug/L	0.2655	
	•	FLUORENE	អ្ន	ug/L	0.2655	: :
	. '	INDENO(1,2,3-CD) PYRENE	0-27	ug/L	0.2655	
		NAPHTHALENE	0.28	ug/L	0.2655	
		PHENANTHRENE	ND	ng/L	0.2655	•
		PYRENE	ND	ug/L	0.2655	
		SURROGATE	93	# RECOVERY	50%-150%	

QS Manager



Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

Telephone: 503-286-3681

Fax: 503-285-2831

October 2, 2001

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of September 2001.

The third quarter PAH results are also enclosed.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely

Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services

T. Self, KII

TERMITTEE NAME/ADDRESS facture Facility Namiefloration of Different, IAME Roppers Industries, INC.
DORESS 7540 NW Saint Helens Road
Portland, OR 97210

ACILITY NW Terminal OCATION Multnomah County

NATIONAL POLLUTANT DISCHARGÉ ELIANNATION BYSTEM (WYVES)
DISCHARGE MONITORING REPORT (MAA)

OR-000077-9

DISCHARGE NUMBER

47430 101642

NOTE: Read Instructions before completing this form.

Form Approved. OMB No. 2040-0004

<u></u>	PARAMETER		QUAN	ITITY OR LOADING		Ö	UANTITY OR CONC	ENTRATION		NO. FREQUENCY		SAMPLE
1			AVERAGE	MUMIXAM	UNITS	MINIMUM	AVERAGE	MUMIKAM	UNITS		ANAJ VSIS	
N		SAMPLE MEASUREMENT	7,333		GPD				:	0	N/A	EST.
Flow	,	PERMIT REQUIREMENT			GPD				.]	1 1		19-57 1- 18-57
100		SAMPLE MEASUREMENT				23.2	23.5	23.8	С	٥	1/7_	GRAB
Temp	)	PERMIT REQUIREMENT				N/A	N/A	N/A				
	,	SAMPLE MEASUREMENT				6.4	6.5	6.5	SU	0	1/7	GRAB
рН		PERMIT REQUIREMENT				6.0		9.0				
		SAMPLE MEASUREMENT				3.4	3.4	3.4	MG/L	0	1/7	GRAB
oil	& Grease	PERMIT REQUIREMENT				N/A	10	15	19676			
9		SAMPLE MEASUREMENT				₹0.05	⟨0.05	(0.05	MG/L	0	1/30	GRAB
Phen	ols	PERMIT REQUIREMENT				N/A	.5	.7	] ,,,,,,			1. V ( ) ( )
		SAMPLE MEASUREMENT	·			·						
Ž	,	PERMIT REQUIREMENT								:. 0,3,		
IES,		SAMPLE MEASUREMENT						-				
NAME/TITL		PERMIT REQUIREMENT										
	LE PRINCIPAL EXECUTIVE O	prepare vess of bindus	under panelty of law that ed under my direction or si to that qualified personnel ted. Broad on my inquiry	upervision in accordance i properly gallier and evalu of the person or persons v	with a system d vata the Informa who menunger the	linn system.	Kamerer, Pl	t. Mar.	TELEPTION	IE	DA	TE .
7. <b>D. Co</b>	Ilins, VP	submill I am an	e persons directly respons ted is , to the best of my kr vare that there are significa ng the possibility of fine an	nowledge and belief, hue, and penalties for submitting	accuraio, and o Laise Mormatk	oziplete. SiGNA	TURE OF PRINCIPAL ICER OR AUTHORIZE	EXECUTIVE 50	3   286-		OL LO	) 02 10 DAY

Third quarter PAH results are attached.

cc: J. Holtrop-City of Portland; T.I. Self-KII; M. Cilley-KII



## CERTIFICATE OF ANALYSIS

OFIGINAL

CLIENT: KOPPERS INDUSTRIES, INC.

7540 NW ST. HELENS ROAD

PORTLAND OR 97210-3663

PHONE: (503) 286-3681 FAX: (503) 285-2831

DATE SUBMITTED: 09/04/2001

PROJECT NAME: QUARTERLY STORMWATER TEST

11341-001	CLIENTS ID	/04/2001 1000 Water	Stormwate	r Tanks		
	E: 09/06/2001		11341	10,,,,0		PAGE: 1 OF
					DETECTION	
Sample	analysis	PARAMETER	RRSULTS	UNITS	LIMIT	<b>AMA</b> LYST
Stormwater T						
						•
11341-001	O & G, TOTAL (HEM)	TOTAL OIL AND GREASE	3.4	mg/L .	2	Gale S
	EPA 1664					09/04/2001
Stormwater T	anks				****	
11341-001	BHENOT 6 Manuary				0.05	7 to 1 17
11341-001	PHENOLS, TOTAL EPA 420.1	TOTAL RECOVERABLE PHENOLICS	NĎ	PPM	0.05	Abigail K 09/05/2001
Stormwater T						09/03/2001
Protimaret I	anks .	•				
11341-001	PNAH 2	ACENAPHTHENE	ND	ug/L	0.201	Robert M
	EPA 625 (SIM)	ACENAPHTHYLENE	ND	ug/L	0.201	09/05/2001
		ANTHRACENE	· ND	ug/L	0.201	
•		Benzo (A) anthracene	0.19	ug/L	0.201	
	•	BENZO (A) PYRENE	0.21	ug/L	0.804	
		BENZO (B) FLUCRANTHENE	0.51	ug/L	0.804	
	•	Benzo (Ghi) perylene	0.34	ug/L	2.01	
	y•	Benzo (K) fluoranthene	0.23	ug/L	0.804	
		CHRYSENE	0.21	ug/L	0.201	
		DIBENZO (AH) ANTHRACENE	ND	ug/L	1.206	
		FLUORANTHENE	0.29	ug/L	0.201	
		FLUORENE	ND	ug/L	0.201	
		INDENO(1,2,3-CD) PYRENE	0.33	ug/L	1.608	
	•	Naphthalene	ดห	ug/L	0.201	
		PHENANTHREME	ND	ug/L	0.201	
		PYRENE	0.30	ug/L	0.201	·
	•					



Amos S. Kemerer

Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3863

> Telephone: 503-285-3681 Fex: 503-285-2831

September 4, 2001

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Dear Mr. Zais,

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Attached please find subject report for the month of August 2001.

There were no discharges during the month, thus there were no excursions.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: <a href="mailto:kamereras@koppers.com">kamereras@koppers.com</a>

Sincerely

Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services

T. Self, KII

M. Cilley, KII

ERMITTEE NAME/ADDRESS (Include Pacility Name/Lacultan if Different)  AME Koppers Industries, Inc.  DDRESS 7540 NW Saint Helens Road			NATIONAL POLLUTANT DISCHARGE ELIMINATION BYSTEM (NYMES) DISCHARGE MONITORING REPORT (NMA)  OR-000077-9  001			47430 101642	U	, MID 140	2040-000	<b>T</b>	
Portland, OR 972	10		PERMIT NUMBER DISCHARGE NUMBER							•	
CIUTY NW Terminal					TORING PERIOD						
OCATION Multnomah County			FROM OI	08 C		MU DAY 08 31					
			/1.OM   OT	<u> </u>	±1 101 01 1	00 1 01 1	NOTE: Read Insti	ructions before	oomp	deling this	lorm.
PARAMETER		QUA	NTITY OR LOADING		imalian indica	OUVILLA CON	CENTRATION	en to establish	NO. EX	FREQUENCY OF	SAMPL TYPE
( C. ( ) ( ) ( ) ( ) ( )		AVERAGE	MAXIMUM	UNITS	MUMINIM	AVERAGE	MAXIMUM	UNITS	·	AMALYSIS	
	SAMPLE MEASUREMENT	O		GPD					0	N/A	EST.
Flow	PERMIT REQUIREMENT			GED							
	SAMPLE MEASUREMENT					_		_ c	0	1/7	GRAE
Тетр	PERMIT REQUIREMENT				N/A	N/A	N/A				
	SAMPLE MEASUREMENT	and there's exist as a	M Steel St. W. W. Wille.			1		SU	0	1/7	GRAE
pH	PERMIT REQUIREMENT				6.0		9.0				
	SAMPLE MEASUREMENT	F- MEC 24 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	The Lorentz Control					- MG/L	0	1/7	GRAE
Oil & Grease	PERMIT REQUIREMENT				N/A		15				1 ye
	SAMPLE MEASUREMENT						<u> </u>	MG/L	0	1/30	GRAE
Phenols	REQUIREMENT				N/A	.5	.7		100 A		1 300
	SAMPLE MEASUREMENT								TALES A	Jegge Artis	1 0 50 10
	PERMIT AEQUIREMENT										
	SAMPLE MEASUREMENT PERMIT		30236 to 1.000 state					_	***		r i Ma
	AEQUIREMENT		<b>表</b>								1 . 65 A. 0 . 6
NAME/TITLE PRINCIPAL EXECUTIVE C	prepare	ed under my direction or a	litirs document and eff altr supervisión in accordance	wikin a system d		1		TELEPHON	E:	D/	TE
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R.D. Collins, VP TYPED OR PRINTED		ciplish are ered furthered	nowledge and belief, true, ant penalties for submitting	g false kilornysii		ATURÉ OF PRINCIPAL FICER OR AUTHORIZE	EXECUTIVE 5	03   286-3 PEX   NUMBER			9 04 10 DA
MMENTS AND EXPLANATION OF A			id larprisonment for langual tents here)	ng violations.		<b>/</b>		ODE THOMBE	•	ACTON !	U J DA
Jothina to report. The			during the πo		7 75 14 14 14 14 14 14 14 14 14 14 14 14 14	op-City of F			·		





Amos S. Kamerer

Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-285-2831

August 21, 2001

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of July 2001.

There were no discharges during the month, thus there were no excursions.

285 3681

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

mos S. Kamerer

Sincerely

CC. J. Holtrop, City of Portland, Environmental Services

T. Self, KII M. Cilley, KII

'ERMITTEE NAME/AODRESS (Include Facility Name (Location (FD))[Form), IAME Koppers Industries, Inc.
DDRESS 7540 NW Saint Helens Road Portland, OR 97210

ACIUTY NW Terminal

OCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (N°DES) DISCHARGE MONITORING REPORT (DMR)

001 DISCHARGE NUMBER

47430 101642

MONITORING PERIOD MO 07 DAY YEAR TO UI MO 07 DAY 31 YEAR FROM OI

OR-000077-9

PERMIT NUMBER

NOTE: Read instructions before completing this form.

Form Approved, OMB No. 2040-0004

: 02	O4 hANGETER		QUA	NTITY ON LOADING		Q	UANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE TYPE
89	PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		AMALYSIS	
_		SAMPLE MEASUREMEN	NT O		GPD					0	N/A	EST.
ив-21	Flow	PEAMIT REQUIREMEN			GPD					情報		
901.0		SAMPLE MEASUREMEI	NT						C	0	1/7	GRAB
Ä	Тепр	PERMIT REQUIREMEN				N/a	N/A	N/A				In The
		SAMPLE MEASUREMEN	NT.			2.3.44.4			SU	0	1/7	GRAB
	r Ha	PEAMIT				6.0		9.0	v.		75 PM 18	
		SAMPLE MEASUREMEN	NT		<u> </u>	1 10 : O : 1 41:	<u> 200 (m. 12 (m. 5 m. 5 m. 5 m.</u>	9.00		0	1/7	GRAB
3581	Oil & Grease	PERMIT				N/A	10	15	MG/L	N. S.		
286 3E	SAMPLE	SAMPLE MEASUREMEN	VT					<u> </u>		0	1/30	GRAB
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Į,	NAME/TITLE PRINCIPAL EXECUTIV	E OFFICER   C	erilly under penalty of law the pered under my direction or			lestroed	The same of the sa		TELEPHON	VE Terres	D/	ATE
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Form 3320-1 (REV 3/99) Previous editions may be used.

thing to report There were no discharges during the month

cc: J. Holtrop-City of Portland; T.I. Self-KII; M.A. Cilley-KII

THIS IS A 4-PART FORM PAGE OF



Amos S. Kamerer

Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-285-2831

July 3, 2001

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of June 2001.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

285 3681

Sincerety

Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

AME Koji rs Industries	, Inc.	topperent)	DISC	HANGE MOI	KITONING DEPONT (	M(I)		n	MB N	5, <b>204</b> 0-000	4 .
ODRESS 7540 NW Saint Hel Portland, OR 9721			РЕПМ	I) NUMBER			7430 01642				
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PARAMETER		AVERAGE	MAXIMUM	UNIS	MUMINIM	AVENAGE	MAXIMUM	UNITS		ANAI.YSIS	
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	SAMPLE MEASUREMENT							٠.			; .
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I Certify under penalty of lew that this document and all attachances were prepared under my direction or supervision in nonordance with a system designed

prepared tracer my creative for supervisions in todardance with a system designed to essure that quaffed personnel properly gather and evaluable the information, submitted. Based on my inquisy of the person or persons who menage the system, or those persons directly responsible for gathering the information, the information, the information, the information, the best of my knowledge and belief, true, encourse, and complete. I am aware that there are significant pervisions for exhibiting felse knownation, including the possibility of two and imprisonment for knowing violations. VIMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SAMPLE MEASUREMENT PERMIT REQUIREMENT

cc: J. Holtrop-City of Portland, T.I. Self-KII, M.A. Cilley-KII

SIGNATURE OF PRINCIPAL EXECUTIVE

OFFICER OR AUTHORIZED AGENT

Amos S. Kamerer, Plt

286-3681 01

TELEPHONE

NUMBER

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

D. Collins, VP

DATE

07

MO

YEAN

Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3563

Arnos S. Kemerer

Telephone: 503-288-3681 Fax: 503-285-2831

June 4, 2001

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97201-4987

Attention: Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of May 2001.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely

Kmos S. Kamerer

CC: J. Holtrop, City of Ponland, Environmental Services

T. Self, KII

M. Cilley, KII

PERMI	ITEE NAME/A	DDRESS (tuchede Fine	ility Some/Location if Pifferent
NAME	Koppers	Industries,	Ínc.

N ADDRESS 7540 NW Saint Helens Road Portland, OR 97210

FACILITY NW Terminal M FACILITY NW Terminal
LOCATION Multnomah County

### HATIOHAL POLLUTANT DISCHARGE ELIMINATION RYS LEM (NETWES) DISCHARGE MONITORING REPORT (19441)

005 PERMIT NUMBER DISCHARGE NUMBER

47430 101642

MONITORING PERIOD MO 05 YEAR DAY FROM OI 31

NOTE: Read instructions before completing this form.

Form Approved. OMB No. 2010-0004

DADAMETER		QUAN	ITITY ON LOADING	·	[	HANTITY ON CONC	ENTRATION		NO.	FREQUENCY OF	SAMPLI TYPE
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	SAMPLE MEASUREMENT	14,194		GPD					0	N A	EST.
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pti	PERMIT REQUIREMENT				6.0		9.0	30			
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Amos S. Kamerer Plant Manager

Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-288-3881 Fax: 503-285-2831

May 1, 2001

Oregon Department of Environmental Quality Northwest Region 2020 SW Forth Ave., Suite 400 Portland, Oregon 97202

INC.

Attention. Elliot J. Zais

Sr. Environmental Engineer

Reference: NPDES Permit No. 101642

Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of April 2001.

The second quarter PAH sample data is attached.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincer

mos S. Kamerer

CC: T. Self, KII M. Cilley, KII

econd quarter results are attached. 1 Form 3320-1 (REV 3/99) Previous editions may be used.

203	ERMITTEE NAME/ADDRESS (Include For AME KC[pers Industries,		(Different)	NATIONAL POL DISC	LUIANT DIŚCII LIARGE MON	MARGE FUMINATION SY ITORING REPORT (I	YSTEM (NIYVES) (NAT)				proved. 2040 000	4
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ď.	\C UIY \W Terminal	LO		1		TORING PERIOD	MILL NORDEN	101642	:			٠
#192	OCATION Multhomah County			FROM OI	MO   DAY	YEAR	MO DAY 04 30					
m		· <del>/~~~~~</del>	<b>7</b>					NOTE: Read Instru	ioled.enaila	<del> `</del>		<u></u>
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Σ	MMENTS AND EXPLANATION OF A	IAT AICHAIDNIS (L	Telefeitce fil altaciim	ienis nere)		/						

cc: J. Holtrop, City of Portland: T.I. Self-KII, M. Cilley-K



### ERTIFICATE OF ANALYSIS PARTIAL REPURT

CLIENT: NOPPERS INDUSTRIES, INC.

7540 MW ST. HELENS ROAD FORTLAND, OR 97210-3653 PHONE: (503) 286-3681 FAX: (503) 285-2831

DATE SUBMITTED: 04/10/2001

PROJECT NAME:

CLIMBER IDE

LI SAMPLE	CENTERAR TON	Darie	AIME MATRIX	DESCRIPT			
10591-001		U4/10/2001	1300 Vater	STORM	MAK TANK		
TOPAL-OOF	•	U4/20/20UI	I500 WAter	STORM I	KATER TANK		
10591-001	·	04/10/2001	1500 Water	STOROL V	EATER TANK		
REPORT DAT	E: 04/12/2001		REPORT NUMBER:	10591			PAGE: 1 OF I
						DETECTION	
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STORM WATER	TATAL				: .		
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	5EA 1664	•	•				04/11/2001
STORM BRITER	TANK						
					·		
10591-001	PICAE 2	ACENAP	eteene	9.80	'ug/L	0.25	Robert M
	EFA 625 (SIM)	ACTORE	ITHYLENZ .	0.87	ng/L	0.25	04/12/2001
		ANTHRA	CENS	7.41	0g/L	0.25	
		JOZNEG	A) ANTERACENS	3.69	ng/L	0.25	•
		BENEC (	A) PYRENS	8. 02	ug/L	0.25	•
•		B23020 (	B) F1110rapteene	3.95	ug/L	0.25	
		BEN30 (	GHI) PERYLENE	3.61	T/Du	0.25	•
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		BERRO	K) YLUCPANTREAE	4.43	yg/L	0.25	•
		CHRYSE		3.16	A/Bn	0.25	
			o (ar) anteracene	2.30	ug/L	0,25	
		FLIRIRA		6.34	ug/L	0.25	
		FLUORE	NIB .	10,13	ug/L	0.25	
		CMESCOET.	(1, 2, 3-CD) PYREME	3.18	ug/L	0.25	
• '		MAPETE		ND	ug/L	·0.25	
		PERMAN		1.35	ug/L	0.25	
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				0,22	wg		
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STORM WATER	TANK		A16	.23			
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IACA AAS				~ 1.	ODDE.	0.05	Dick R.
10591-001	PRENOLS, TOTAL	TO1245	RECOVERABLE PREDOLICS	0.14	55M	0.03	01CK X. 04/11/2001
	BFA 420.1						04/11/2001

This report has not undergone final quality assurance review Data in this report may not be complete.

COLUMBIA I NSPECTION, I NC7123 N. Lumberd, Portland, OR 97203 Phone: (\$03) 288-8484 Fm: (\$03) 288-6365 E-mailtab@Columbistrapection.com

21	AMILIEI ME Kop	ENAME/ADDRESS (Include Facility Named a retion if Different opers Industries, Inc.
P.01/	DRESS	ppers Industries, Inc. 7540 NW Saint Delens Road Portland, OR 97210
		NW Terminal

NATIONA	LIPOLLUIMI	DINCHARIOR	FLIMINATION	SYSTEM	MYST
	DISCHARGE	MONITOR	NG BEPOOL	(C)A (C)	

47430 101642 DISCUMUCE LIGNISED PERMIT NUMBER

| DAY | YEAR | MO | O1 | O3 |

NOTE: Read Instructions before completing this form.

Coun Approved. OMB No. 2040 0004

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FROM

RMITTEE NAME/ADDRESS (Include Facility Name Location & Officeal) ME Koppers Industries, Inc.
DRESS 7540 NW Saint Helens Road Portland, OR 97210
CILITY NW Terminal CATION Multnomah County

MATICINIAL POLITICALIS	DISCHARGE EUMINATION SYST	EN WINDER
· DISCHARG	E MONITORING REPORT <i>IDM</i>	71 ·

002

DISCHANGE NUMBER

47430 101642

PERMIT NUMBER

NOTE: Read instructions before completing this form

Form Approved. OMB No. 2040-0004

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cc: J. Holtrop-City of Portland, T.I. Self-KII, M. Cilley-KII

?	'ERMIT	TEE NAME/AI Koppers	DDRESS Indus	(Include Faci Stries,	llin Novie/Location y D Inc.	Nisserent)
•	ODDE					

ODRES \$540 NW Saint Helens Road Portland, OR 97210

ACILITY NW Terminal OCATION Multnomah County

### NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER

DISCHARGE NUMBER

47430 101642

MONITORING PERIOD YEAR MO DAY YEAR MO DAY FROM 01 01 01 TO 01 01 31

NOTE: Read instructions before completing this form.

Form Approved. OMB No. 2040-0004

PARAMETER		QUAN	ITITY OF LOADING	: .	C	VANTITY OR CON	CENTRATION		ND. EX.	FREQUENCY OF	SAMPLE TYPE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ahalvsis	
}	SAMPLE MEASUREMENT	14,194							0	N/A	EST.
FLOW	PERMIT REQUIREMENT			GPD							
	SAMPLE MEASUREMENT				7.3	7.7	8.1		0	1/7	GRAB
TEMP	PEAMIT REQUIREMENT				N/A	N/A	N/A	C		<b>表</b> 定	9
	SAMPLÉ MEASUREMENT				6.5	6.5	6.5	SU	0	1/7	GRAB
На	PERMIT RECUIREMENT				6.0		9.0				
	SAMPLE MEASUREMENT				N.D.	1.6	3.1		0	1/7	GRAB
OIL & GREASE	PEAMIT PEQUIPEMENT				O s	10	15	MG/L			
	SAMPLE MEASUREMENT				N.D.	N.D.	N.D.		0	1/30	GRAB:
PHENOLS	PERMIT AEQUIREMENT				0	.5	7	MG/L		T C	
	SAMPLE MEASUREMENT										
·-	PERMIT -										
	SAMPLE MEASUREMENT	·									<del></del>
	PERMIT REQUIREMENT					1				3.2	1
NAME/TITLE PRINCIPAL EXECUTIVE C	prepare	d under my direction or su	this document and all situa pervision in accordance w	illh e svatem da	asigned A	5		TELEPHONE		DA	TE
R.D. Collins, VP	tilmdus secrit 10 tilmdus wa ma i	ed. Besed on my inquiry o a passons directly response ed is , to the bast of my kn rare that there are stonline	properly gather and avaluated in persons with person or persons with the person or persons with the persons and belief, tone, and pensilias for submitting	ho manage the nation, the info scourate, and c false informatio	emellon SIGNA	. Kamerer, P TURE OF PRINCIPAL ICER OR AUTHORIZE	EXECUTIVE 50	3   286-36	81	01 02	
DAMENTS AND EXPLANATION OF A	Includin   NY-VIOLATIONS (R	g the possibility of fine and eference all attachm	d imprisonment for knowing erats there)	g violations.	- Corri	·	COC	NUMBER		YEAR M	O DAÝ

First quarter PAH results are attached A Form 3320-1 (REV 3/99) Previous editions may be used.

M.A. Cilley-KII, cc. J. Holtrop-City of Portland, T.I. Self-KII,

THIS IS A 4-PART FORM PAGE 1 OF 1



## CERTIFICATE OF ANALYSIS

CLIENT: KOPPERS INDUSTRIES, INC.

7540 HW ST. HELENS ROAD

PORTLAND OR 97210-3663

PHONE: (503) 286-3681

FAX: (503) 285-2831

DATE SUBMITTED: 01/11/20

PROJECT NAME: STORM WATER TANKS

CI SAMPLE	CLIENTS IDS	DATE	TIME MA	TRIZ		DESCRIPTION	•				
10068-001		01/11/2001	000 Wa	ter	•	STORM WATER	GRAB S	AMPLE			
REPORT DATE	: 01/17/2001		REPOR	T RUMBER	: 1	.0068				PAGE: 1	OF
			*****					DETEC	TION		
Sample	AMALYSIS	PARAMETER	R		1	RESULTS	UNITS	IDGI		analist	
STORM WATER G	RAB SAMPLE				•			<del></del>			

			20,		DETECTION	
eamplii 8	AMALYSIS	PARAMETER	RESULTS	UNITS	LDGI	analyst
STORM WATER	GRAB SAMPLE			<del>-</del>		
10068-001	O & G TOTAL (HEM)	TOTAL OIL AND GREASE	ND	mg/L	2	Dick R
: :	EPA 1664					01/12/2001
	PHENOLS, TOTAL	TOTAL RECOVERABLE PHENOLICS	nd	mg/L	0.05	Jeremy B
	EPA 420.1	· .	·:			01/12/2001
	PNAH 2	ACENAPHTHENE	19	ug/L	0_05	Robert M
•	EPA 625 (SIM)	ACENAPHTHYLENE	6-0	ug/L	0.05	01/12/2001
	* •	ANTHRACENE	4.4	ug/L	0.05	•
•		Benzo (A) anthracene	5.8	ug/L	0.05	
		BENZO(A) PYRENE	5.6	ug/L	0.2 ,	
•		BENZO (B) FLUORANTHENE	6.5	ug/L	0.2	
•	•	BENZO (GHI ) PERYLENE	6.1	ug/L	0.5	•
•		BENZO (K) FLUORANTHENE	5.3	ug/L	0.2	
		CHRYSENE	5.6	ug/L	0.05	
		Dibenzo (AH) anthracene	4.4	ug/L	0.3	
		FLUORANTHENE .	9.6	· ug/L	0.05	
		FLUORENE	13	ug/L	0.05	•
	•	INDENO(1, 2, 3-CD) PYRENE	5.6	ug/L	0.4	•
		NAPHTHALENE	ND	ug/L	. 0.05	
		PHENANTHRENE	12	ug/L	0.05	
٠.	•	PYRENE	·8_5	ug/L	0.05	
•		SURROGATE	103	& RECOVE	RY 50%-150%	

REVIEWED BY:

Martin Wittle - Quality Manager



### ERTIFICATE OF ANALYSIS PARTIAL REPORT

CLIENT: KOPPERS INDUSTRIES, INC.

7540 NW ST. HELENS ROAD

PORTLAND, OR 97210-3663

PHONE: (503) 286-3681

FAX: (503) 285-2891

DATE SUBMITTED: 01/29/2001

PROJECT NAME: STORMWATER TANKS

CI SIMPLE		. =	THE MATRIX	DESCRIPT	DOM:		
10176-001		01/29/2001	1130 Water	Stormu	ster fanks		
REPORT DAT	E: 01/30/2001		REPORT HUMBER	: 10176		******	PAGE: 1 OF
						DETECTION	
52007.2	amalysis	PARAMETER		pastle	OHIT	LIMIT	AMALTET
Stormwater T	anks		SAMPLE ID:				
10176-001	O 4 G TOTAL (HEM)	TOTAL DIL	AND GREAGE	3.1	mg/L	2	Dick R.
	BPA 1864	•	•	•			01/30/2001

Data in this report may not be complete. This report has not undergone final quality assurance review



Amos S. Kamerer Plant Manager Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

09:11

Telephone: 503-286-3681 Fax: 503-285-2831

June 5, 2000

Oregon department of Environmental Quality Northwest Region 2020 SW fourth Avenue, Suite 400 Portland, Oregon 97201-4987

Attention: Elliot Zais

To confirm our telephone conversation of last Friday, June 02, 2000 attached please find the Discharge Monitoring Report for May 2000.

As discussed, this report reflects that we had an excellence during the month of May, of our Phenols permit limit. The permit limit is .5 MG/L monthly average, and .7 MG/L maximum daily limit. The test result on our first sample for the month was .54 MG/L, and because it was below the .7 MG/L maximum limit, it was thought to be OK.

We now understand that we should have re-sampled and re-tested for verification or possible correction, prior to the discharge of the storm water.

Needless to say I regret the error, and I will do all that I can to avoid having this type of error happening again.

If you have any questions, please contact me at 286-3681, or via e-mail at: amos\_kamerer@koppers.com

Sincerely

Amos S. Kamerer

CC: J. Holtrop, City of Portland

J. Dietz, KII T. Self, KII

M. Cilley, KII

(20-21) (22-25) (24-25) (26-27) (28-29) (30-31) 9 3681 Koppers003169

FROM

00

Form Approved. OMB No. 2040-0004 Approval expires 05-31-98

47430 101642

PERMIT NUMBER DISCHARGE NUMBER MONITORING PERIOD YEAR MO DAY YEAR MD DAY 00 OI TD

005

HATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16)
[17-19]

NOTE: Read instructions before completing this form.

PARAMETER		13 Cord Only) QUA	NTITY OR LOADIN	(22-25) (24-) G		ANTITY OR CONCE	NTRATION (64-81)		NO.	FREQUINCY	BAMPLE
192-971		AVERAGE	MUMIKAM.	UNITS	MINIMUM	AVERAGE	MUMIXAM	UNITS	102-55	AHALVEIS 164-681	169-70/
	BAMPLE MEASUREMENT	21,290			•				О	N/A	est.
FLOW	PERMIT REQUIREMENT			GPD.							
	SAMPLE MEASUREMENT				13.8	15.5	18.2		0	1/7	GRAB
TEMP	PERMIT REQUIREMENT				N/A	N/A	N/A	C.			1
	SAMPLE MEASUREMENT				6.8	7.4	7.8		0	1/7	GRAB
рĦ	PERMIT REQUIREMENT				6.0		9.0	SU			
	SAMPLE MEASUREMENT			<del></del>	N.D	2.5	5.1		0	1/7	GRAB
OIL & GREASE	PERMIT REQUIREMENT				0	10	15	MG/L			
	SAMPLE MEASUREMENT		<u> </u>		.54	.54	.54	MG/L	1	1/30	GRAB
PHENOLS	PERMIT REQUIREMENT				0	.5	.7	176/1			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT					N					
AME/TITLE PRINCIPAL EXECUTIVE	OFFICER LEBY	IFY UNDER PENALTY OF	LAW THAT I HAVE PEREC	HALLY EXAM	INED AND		1.0	TELEPHO	VÉ	· D/	ATE
	MY P	HOURY OF THOSE IN	DIVIDUALS IMMEDIATE I, I BELIEVE THE SUBMI	enein; and b Ly responsi Typo (nform	BLE FOR	Jan					1
R.D. Collins, VP	TRUE	ACCURATE AND CON	PLETE. AM AWAI	E THAT TH	ENE ARE DESOR		50	3 286-	-3681	00 0	
TYPED OR PRINTED	THE PO	IFY UNDER PENALTY OF MALLAR WITH THE INFO MOLIFIE OF THOSE IN NING THE INFORMATION ACCURATE AND COM ACCURATE AND COM ACCURATE PRALTIES FOR DESIGNATE OF PRICE AND I 1819. PREMARIE UNDER THE INFORMATION OF COMMENTS	IMPRISONMENT, SEE 18 7 these statute may lack 7 between 8 countly and A	'U.S.C. I 100' Ide fines up to 'Vascul	110,000 BION	ature of Principal FICER OR AUTHORIZE	EXCEPTIVE LAW				5 05 10 DAY
MENTS AND EXPLANATION OF	ANY VIOLATIONS	(Reference of elle	chments here)	<del></del>			T CUI	<u> </u>	<del></del>		

PERMITTEE HAME/ADDRESS (Include Facility Name/Location & Different)

Koppers Industries, Inc.

Portland, OR 97210

Multnomah County

NW Terminal

FACILITY

LOCATION

7540 NW Saint Helens Road

Form 3320-1 (08-95) Previous editions may be used.



Amos S. Kamerer Plant Manager Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-285-2831

November 18, 1999

Mr. Elliot J. Zais
Sr. Environmental Engineer
Water Quality Source Control Section
Oregon DEQ
2020 SW Fourth Ave., Suite 400
Portland, Oregon 97201-4987

Reference: NPDES # 101642

Dear Elliot,

Enclosed please find a corrected copy of my DMR for last month, October 1999, the original report showed in error the monitoring period month as 09, rather than 10.

I'm sorry for any inconvenience that this may have caused.

Sincerely

nos S. Kamerer

CC: T. Self, KII

J. Holtrop, City of Portland

MONITORING PERIOD FACILITY NW Terminal YEAR MO DAY YEAR MO DAY LOCATION Multnomah County FROM 99 10 01 99 10 30 NOTE: Read instructions before completing this form. (20-21) (22-23) (24-26) (26-27) (28-29) (30-31) 14 Cud Only QUANTITY OR CONCENTRATION QUANTITY OR LOADING FREQUENCY 3 Card Only) NO. SAMPLE PARAMETER (48-53) 154-61) 139-451 (48-53) (64.81) EX TYPE (32-37) ANAL VAIS MINIMUM MAXIMUM UNITS AVERAGE 182-63 AVERAGE MUMIXAM LINITS (64-58) 169-70J SAMPLE O N/A EST. 14,194 MEASUREMENT GPD FLOW PERMIT : REQUIREMENT SAMPLE 11.2 13.2 14.3 0 GRAB MEASUREMENT C PERMIT N/A N/A N/A REQUIREMENT SAMPLE 0 8.9 8.9 8.8 CRAB MEASUREMENT SU рH PERMIT 9.0 REQUIREMENT 6.0 SAMPLE 3.0 3.2 3.4 0 : GRAB MEASUREMENT MG/L OIL & GREASE PERMIT 15. REQUIREMENT 10 SAMPLE 0 .06 .06 GRAB MEASUREMENT .06 MG/L PHENOLS PERMIT 0 REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE 13 MEASUREMENT PERMIT REQUIREMENT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREN; AND BASED ON MY INCUITY OF THOSE INDIVIDUALS IMMEDIATILY RESPONSELE FOR ROST AINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. ) AM AWARE THAT THERE ARE SIGNIFICANT FENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF RINE AND IMPRISONMENT. SEE 18 U.S.C. I 1007 AND 33. U.S.C. I 1818. Phanabha under these address may foother fines up to \$10,000 and or maximum injuntament of bitisher 8 months and 6 years.) ME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE R.D. Collins, VP Kamerer, Plant MGR 5031 286-3681 01 HOHATURE OF PRINCIPAL EXECUTIVE TYPED OR PRINTED NUMBER OFFICER OR AUTHORIZED AGENY YEAR ·MO DAY MMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) Ith Quarter PAH Results are attached cc: J. Holtrop - City of Portland, T.I. Self -KII Form 3320-1 (08-85) Previous aditions may be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.) PAGE 1 OF 7

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NAPOES)
DISCHARGE MONITORING REPORT (DMR)
(2-16)

101642 PERMIT NUMBER : 07.0

DISCHARGE NUMBER

47430

PERMITTEE NAME/ADDRESS (Inchele Facility Name/Location If Different)

Portland, OR 97210

7540 NW Saint Helens Road

NAME Koppers Industries, Inc. ..

ADDRESS

Koppers00317

Form Approved.

OMB No. 2040-0004

Approvei expires 05-31-98

#### DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY SOURCE INSPECTION FORM

					4	
	Permittee: Koppers Indu	stries		Source Ad	ddress 7540 NW St. Helens Road	Date Inspected: 18 April 2005
P1	Facility Name:			Phone Nu	Portland umber: 503/286-3681	Official Contacted/Title:
	File Number (Site ID No.): 474	130		Mailing A	address: VW St. Helens Road	T. J. Turner, General Foreman
09:28AM	EPA ID Number (NPDES Only):	OR00007	79	1	nd OR 97210-3663	APR 2 2 2005
	Permit Number: 101642			Type of I	Inspection: ☑ Compliance	Samples Taken: TYES MINO TSPLIT
5 2005	Permit Exp. Date: 31 Januar	y 2004		1	☐ Land Application/Reuse	System Classification: X Treatment Collection
r. 26	COMPLIANCE STATUS	In Comp	Not In Comp	On Sch	SUMMARY OF INSPECTION FIND	DINGS & COMMENTS / RECOMMENDATIONS
Apr.	Schedule A Waste Discharge Limitations	×	0		))	eman. We walked around the site. The nere were no wastewater discharges today.
	Schedule B Monitoring & Reporting	⊠			Vegetation looks OK. The site appe	
31	Schedule C Compliance Conditions				· ·	
:5032852831	Schedule D Special Conditions	Ø	0			
	General Conditions	×				
FAX NO.	SFO or MAO Requirements		П		-	
7	VIOLATIONS NOTED: None.					
						·
			<del> </del>			
					☐ CONTINUED ON A	TTACHED PAGE
ξ.	PREPARATION TIME: 0.5 INSPECTION TIME: 0.75 H				Elliot J. Zais	NWR/WQ/Portland
:KOPPERS	(include travel to & from)				Inspector's Name (Please Print)	Region & Office
Σ Σ	FOLLOW-UP TIME: 0.5 H		ν)		Inspector's Signature	18 April 2005  Date

CC: T. Self

5032852831

FROM : KOPPERS

(inspection write-up, enforcement if necessary) cc: ☐ Water Quality Division ☑ Permittee

## **KOPPERS**

7540 N.W. St. Helens Rd. Portland, Oregon 97210 (503) 286-3681

11/10/98

Tosci Self

K-1800

The ATTACKED for your files.

AMOS S. KAMERER

## DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY SOURCE INSPECTION FORM

Permittee Koppers Industries Inc.				Address/ 7540 NW St. Helans Rd.	Official Contacted/Title:				
Facility Name: Portland Plant				286-3681					
File Number (Site ID No.): 47430				Address: 7540 NW St. Helans Rd.	Amos Kamerer, Plant Mongay				
EPA ID Number (NPDES Only):	OR Occ	77-9		fortland OR 97210-3663					
Permit Number: /0/003			Type of	Inspection: ☑ Compliance ☐ Technical Assistance	Samples Taken: ☐ YES ☑-NO ☐ SPLIT				
Permit Exp. Date: 1/-30	-1997			☐ Land Application/Reuse	System Classification: TreatmentCollection				
COMPLIANCE STATUS	în Comp	Not In Comp	On Sch	On Sch SUMMARY OF INSPECTION FINDINGS & COMMENTS / RECOMMENDATIONS					
Schedule A Waste Discharge Limitations	<b>6</b>			I not with Amos Kam	ever, Plant Manager. I				
Schedule B Monitoring & Reporting	<u> </u>			cheeked lab data	for January 1998, OK.				
Schedule C Compliance Conditions				. We walked around the facility. The					
Schedule D Special Conditions				tank form appears to be properly					
General Conditions				maintained and operated. The outfall					
SFO or MAO Requirements □ □				To Howing clear.					
VIOLATIONS NOTED: 1/c	ne.								
See		<del></del>		Facility is in co	mollence.				
·				□ CONTINUED ON ATTACHED PAGE					
PREPARATION TIME: 0.5 HRS INSPECTION TIME: 2.0 HRS				Ellot J. Zals	NuR				
(include travel to & from)  FOLLOW-UP TIME:O . S HRS  (inspection write-up, enforcement if necessary)				Inspector's Name (Please Print)	Region & Office 6 November/ Eas				
cc: Water Quality Division Permittee				Inspector's Signature	Date MW\WC13\WC13053.5 (6/95)				

## RECEIVED

t W 10 1998

KOPPERSINDS.,INC. PORTLAND OR

286 3681



#### Department of Environmental Quality

Northwest Region Portland Office 2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 (503) 229-5263 FAX (503) 229-6957 TTY (503) 229-5471

Amos S. Kamerer Plant Manager Koppers Industries, Inc. 7540 NW St. Helens Road Portland OR 97210 JUL 0 6 2000

Re: WQ-Multnomah County Koppers Industries, Inc.

Facility No. 47430 WQ-NWR-2000-75

NOTICE OF NONCOMPLIANCE

A review of your facility discharge monitoring report for May 2000 for your NPDES individual permit shows the following permit limit exceedance:

Violation: Monthly average phenois concentration of 0.54 mg/L. Your permit limit is 0.5 mg/L.

The above violation is a Class II violation of your permit. Oregon Administrative Rule 340-12-041(2)(c) provides that a permittee shall not receive more than three NONs for Class II violations of the same permit within a thirty-six (36) month period without being issued a more formal enforcement action called a Notice of Permit Violation (NPV). The Department may, however, issue a NPV prior to the third NON. The Department requests your cooperation in ensuring that this violation does not recur.

#### **Corrective Action Required:**

Your June 5<sup>th</sup> letter stated that you took only one phenol sample in May and that since it was below the permit daily maximum limit of 0.7 mg/L, you believed you were in compliance. There is no required corrective action, but the Department recommends additional sampling if a single sample is higher than the average. If you collect only one sample during a given month, it must be below the monthly average limit to be in compliance.

This Notice of Noncompliance suggests you use pollution prevention activities. Using pollution prevention can save you money through lower costs for resources or raw materials, energy and water, waste disposal or waste management, pollution control



10:41

equipment, occupational injuries, and DEQ permit costs, emission fees, and hazardous waste generation fees. Pollution prevention can also lead to improved worker health and safety, and increased efficiency or productivity through diverting investments in waste management into the manufacturing process.

286 3681

What is pollution prevention? Preventing environmental degradation at the source. Pollution prevention can be achieved by:

- protection of natural resources by conservation and improved management practices;
- increased efficiency in the use of raw materials, energy, water, or other resources; or
- source reduction and other practices that reduce or eliminate the creation of pollutants.

The brochure, Industry and the Environment, Pollution Prevention Opportunities, is enclosed for additional information.

Please contact Kevin Masterson, DEQ Northwest Region, 503/229-5615, if you have pollution prevention questions.

Please contact Elliot Zais, DEQ Northwest Region, 503/229-5292, if you have questions about this Notice of Noncompliance.

Sincerely,

Robert P. Baumgartner

Klart K

Manager, Water Quality Source Control

Northwest Region

cc: WQ Division, DEQ

**Enforcement Section, DEQ** 

The second secon

即上,7 2000

KOPPERS MUS. POP PORTLANC OR CC: J. Dieti T. Self M. Cilley

CY, I.

Amos 7/10/00





Amos S. Kamerer Plant Manager APR 2 1 199

Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-285-2831

April 18, 1997

Mr. Elliot J. Zais Sr. Environmental Engineer Oregon D.E.Q. 2020 S.W. Fourth Ave, #400 Portland, Oregon 97201-4987

Dear Elliot,

To confirm our telephone conversation of yesterday. Due to my misreading of the data contained in the Laboratory Analysis Reports for PAH testing, I have had one non-conforming discharge and possibly two.

The December 1996 Fourth Quarter PAH Analysis, performed by Coffey Laboratories, was reported for the first time ever as MG/L, rather than UG/L, and I did not notice the change. Thinking we were in compliance, we pumped the tanks.

I have talked to Susan at Coffey and she is researching the data from the December Analysis and will report to me, with a copy to you, via a letter fax early next week. As I indicated to you we have never had a non-conformance analysis for PAH's before and because of the magnitude of the results, I can't believe that they are correct. Hopefully, Susan will be able to determine what happened.

In January 1997 we changed Laboratories to Columbia Inspection, Inc. Their March 1997 First Quarter PAH Analysis was also reported as MG/L, rather than UG/L, and again I did not notice the change and pumped the tanks, thinking that I was in compliance.

It wasn't until this Monday as I was preparing the DMR that I noticed the error. I called Dick Reed with Columbia, and as you can see by his attached letter, he is sure of his results and that I was out of compliance.

On Tuesday of this week we took another sample for PAH analysis and the Columbia Analysis showed that we were back into compliance. We have reviewed everything that we are doing here at the plant and I truly do not know why we would have had this spike in March, let alone the possibility that the December analysis might also be correct.

I am traveling next week, but will be back in the office on Monday April 28, I will call you then to review the Coffey investigation report and to see how you want to proceed on this matter.

I have attached copies of all of the referenced data in this letter.

Sincerely,

Amos S. Kamerer

bcc:

W.W. Turner, K-1600

W.E. Swearingen, K-1800

F.J. Fitzgerald, Stickney

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) 101003 PERMIT NUMBER

001 3077-J DISCHARGE NUMBER

(17-19)

Form Approved. OMB No. 2040-0004 Approval expires 10-31-94

47430

MONITORING PERIOD MO DAY YEAR MO DAY TO Q6 12 31 96 12 01

				12   01 (22-23) (24-			IOTE: Read Insti	uctions befor	e com	pleting this	form.
PARAMETER		(3 Card Only) QUA (46-53)	ANTITY OR LOADIN (54-61)	G	(4 Card Only) (38-45)	QUALITY OR CON- (46-53)	CENTRATION · (54-61)		NO.	FREQUENCY OF ANALYSIS	SAMPLI
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)		(69-70)
FLOW	SAMPLE MEASUREMENT	44,516		GPD					N/A	18/31	EST.
-	PERMIT										
TEMP	SAMPLE MEASUREMENT	:			45	48	50	Fo	0	18/31	GRAB
	PERMIT REQUIREMENT				N/A	NA	N/A				
₽ <sup>th</sup> pH '	SAMPLE MEASUREMENT			•	6.9	7.0	7.1	SU.	0	18/31	GRAB
ver pn	PERMIT REQUIREMENT				610		9,2				
OTI C CORRAGE	SAMPLE MEASUREMENT				N.D.	4.0	7.0	MG/L	0	18/31	GRAB
OIL & GREASE	PERMIT REQUIREMENT				101	10 15	本				4
	SAMPLE MEASUREMENT				N.D.	.06	.13	Mg/L	0.	18/31	GRAB
PHENOLS	PERMIT REQUIREMENT				o	,5	为决定				¥ \$
	SAMPLE MEASUREMENT									÷	
	PERMIT REQUIREMENT	Marie San	1.5		100	1	147.116.1		1	A.F.A	
	SAMPLE MEASUREMENT					!					
÷	PERMIT REQUIREMENT			,	第三十二 <b>第</b>				W.Ş	e pi	*11
AME/TITLE PRINCIPAL EXECUTIVE	OFFICER I CERTIF	Y UNDER PENALTY OF FAMILIAR WITH THE IN	LAW THAT I HAVE PERFORMATION SUBMITTED	ERSONALLY E	XAMINED :			TELEPHONE		. DA	TE
R.D. COLLINS, VP	ON MY OBTAININ TRUE, A SIGNIFICA	INQUIRY OF THOSE II IG THE INFORMATION. ACCURATE AND COM ANT PENALTIES FOR !	LAW THAT I HAVE PI FORMATION SUBMITTER NDIVIDUALS IMMEDIATER I BELIEVE THE SUBMIT PLETE. I AM AWARE SUBMITTING FALSE INF IMPRISONMENT. SEE I under these statutes may need of between 6 register.	Y RESPONSIE ITED INFORMA THAT THEI ORMATION, IN	ATION IS RE ARE A CLUDING		MGR. 5	03   286-3	1681	97 01	02
TYPED OR PRINTED	THE POS	SSIBILITY OF FINE AND	IMPRISONMENT, SEE 1 Inder these statutes maj nent of between 6 months	B U.S.C. 1 10 v include fine	SIGNATU	RE OF PRINCIPAL E ER OR AUTHORIZEI	TARCONVE	EA NUMB		YEAR MO	

FOURTH QUARTER PAH RESULTS ARE ATTACHED

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME
KO

LOCATION Multnomah Co.

FACILITY NW Plant

ADDRESS 7540 NW St. Helens Rd.

Portland, OR 97210



### **Analytical Data**

Koppers Industry

Job Number: 961203V

Page Number: 3 of 4

Lab Sample ID: 961203V-1

Field ID: Wastewater Tanks 1,3 & 5

Date/Time: 12/03/96 0800 Matrix: Waste Water

EPA Category: Extractable Organics

Analysis Performed: EPA 8310; Polynuclear Aromatic Hydrocarbons by HPLC.

Analysis Date: 12/23/96 Analyst: VB

	Detection	Laboratory	Analytical
Parameter	<u>Limi</u> t	Blank	Result
Acenaphthene	10.	ND	ND
Acenaphthylene	10.	ND	ND
Anthracene	1.	ND	ND
Benzo(a)anthracene	0.1	ND	4.0
Benzo(a)pyrene	0.4	ND	11.
Benzo(b)fluoranthene	0.1	ND	19.
Benzo(g,h,i)perylene	0.4	ND .	6.4
Benzo(k)fluoranthene	0.1	ND	15.
Chrysene	. 1.	ND	7.
Dibenzo(a,h)anthracene	0.4	ND	1.7
Fluoranthene	1.	ND	15.
Fluorene	5.	ND	ND
Indeno(1,2,3-cd)pyrene	0.5	ND	7.3
Naphthalene	5.	ND	ND
Phenanthrene	1.	ND	ND
Pyrene	1.	ND	15.
			-

Results expressed as mg/l unless otherwise noted.

ND means none detected at or above the detection limit listed.

1014

## RECEIVED

JAN - 2 1997

KOPPERSINDS, INC. PORTLAND, OR

## Columbia Inspection, Inc.

Member of ASTM & API
U.S. Customs Commercial Gauger and Laboratory

April 18, 1997

L970418A.KII

Mr. Amos Kamerer Koppers Industries, Inc. 7540 NW St. Helens Road Portland, OR 97210-3663

RE: The PAH Analysis of Wastewater Tanks 1,3,5 (03/06/97)

From the office at . . .

- PORTLAND
   7133 N. Lombard St.
   P.O. Box 83569 St. Johns Sta.
   Portland, OR 97283-0569
   503-286-9464
   FAX 503-285-7831
- TACOMA 4901 E. 20 Street Fife, WA 98424 206-922-8781 FAX 206-922-8957
- SAN FRANCISCO
   613 Escobar Street
   Martinez, CA 94553
   510-229-0360
   FAX \$10-229-2821
- D LOS ANGELES 790 Basin St., Unit #2 San Pedro, CA 90731 310-833-1557 FAX 310-833-1585

#### Dear Amos:

As per your request, I have again reviewed the PAH test which yielded total toxic organic levels of 1.6 mg/L (1,600 ppb) in order to validate whether or not your discharge was, indeed, out of compliance. The following is the result of my review.

- The sample bottle provided for sample collection was a bottle that had been washed with a hot alkaline detergent, rinsed numerous times with deionized water. The bottle was also solvent rinsed three times to remove organic residue. Other bottles washed at that time were used by other clients for PAH analysis with results in the low parts-per-billion or "none detected" range. This tends to suggest that the bottle was suitably clean prior to sample collection.
- 2. The extraction blank which accompanied this test showed "none detected" for all parameters. The sample's extract was especially dirty for a sample of this nature. The sample extract concentration step took the initial sample volume of 950mLs down to 1.0 mLs, nearly a thousand-fold concentration.
- 3. Unlike most routine samples, this sample showed "hits" for every parameter on the PAH list. The analyst was questioned about the possibility that he had accidentally spike the sample with standard instead of surrogate solution. He said this wasn't the case. He also suggested that if such a mistake had been made, the levels found for all parameters would have been close to a given concentration.
- 4. The calibration standards for this test yielded essentially the same integration counts as found with other analyses. The counts obtained for the Koppers sample yield "ppm" results in the 1-500 ppm range for nearly all parameters. These ppm results were then corrected for the 950-fold concentration which essentially converts ppm results to ppb results. Thus, we reported results in the 1-500 ppb range. The surrogate recovery was 94% which validates the data.

All results can be justified and point to a total PAH content over 1000 ppb. Please feel free to call me should you have any questions or concerns.

Sincerely,

Richard D. Reid Laboratory Director



# CERTIFICATE OF ANALYSIS

CLIENT: KOPPERS INDUSTRIES, INC. 7540 NW ST. HELENS ROAD

PORTLAND OR 97210-3663

PHONE: (503) 286-3681

FAX: (503) 285-2831

DATE SUBMITTED: 04/16/97

PO#:

PROJECT NAME: WW Tanks 1-3-5

CI SAMPLE #

CLIENTS 1D#

970550-001-01

04/14/97

Wastewater Grab from Tanks 1-3-5

REPORT DATE: 04/16/97		REPORT NU	PAGE: 1 OF			
SAMPLE	TEST	PARAMETER	RESULT	UNIT	DETECTION LIMIT	ANALYST
					.:"	
970550-001-0	D1 PNAH 2	ACENAPHTHENE '	0.009	PPM	0.007	<b>*.</b>
	EPA 625 (SIM)	ACENAPHTHYLENE	0.020	PPM	0.010	
		ANTHRACENE	ND	PPM	0.001	
		BENZO(A)ANTHRACENE	ND	PPM	0.005	
		BENZO(A)PYRENE	ND	PPM	0.01	
•		BENZO(B)FLUORANTHENE	ND.	PPM	0.0001	
		BENZO(GHI)PERYLENE	CIN	PPM	0.0004	
		BENZO(K)FLUORANTHENE	ND	PPM	0.0003	
		CHRYSENE	NĐ	PPM	0.001	
		DIBENZO(AH)ANTHRACENE	ND	PPM	0.0004	
•		FLUCRANTHENE	0.022	PPM	0.001	
		FLUORENE	0.004	PPM	0.001	
		INDENO(1.2.3-CD)PYRENE	ND	PPM	0.001	
		NAPTHALENE	ND	PPM	0.005	
	•	PHENANTHRENE	0.008	PPM	0.001	
		PYRENE	ND	PPM	0.001	

**SURROGATE** 

Richard D. Reid - Laboratory Director

ACCEPTABLE % RECOVERY



## CERTIFICATE OF ANALYSIS

CLIENT: KOPPERS INDUSTRIES, INC. 7540 NW ST. HELENS ROAD PORTLAND OR 97210-3663

PHONE: (503) 286-3681 FAX: (503) 285-2831

DATE SUBMITTED: 03/06/97

PO#:

PROJECT NAME: WASTE WATER TANKS 1-3-5

	CLIENTS ID#	DATE		DESCRIPTION
970317-001-01 970317-001-02 970317-001-03		03/06/97 03/06/97	0800 0080	WASTE WATER GRAB SAMPLE WASTE WATER GRAB SAMPLE WASTE WATER GRAB SAMPLE

REPORT DATE: 03/13/97		REPORT NUM	PAGE: 1 OF 2			
SAMPLE	1EST	PARAMETER	RESULT	TINU	DETECTION LIMIT	ANALYST
970317-001-01	0&G. TOTAL, GRAV EPA 413.1/9070	TOTAL OIL & GREASE	5.1	РРМ	2	Dick R.
970317-001-02	PHENOLS, TOTAL EPA 420.1	TOTAL RECOVERABLE PHENOLICS	.051	PPM	0.05	Dick R.
970317-001-03	PNAH 1 EPA 8270M (SIM)	ACENAPHTHENE ACENAPHTHYLENE ANTHRACENE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(GHI)PERYLENE	0.0091 0.0010 0.013 0.45 0.25 0.024 0.23	PPM PPM PPM PPM PPM PPM PPM PPM	0.00005 0.00005 0.00005 0.00005 0.0005 0.0005	· Jacob F.

## CERTIFICATE OF ANALYSIS

						PAGE: 2 OF 2		
SAMPLE	TEST	PARAMETER	RESULT	UNIT	DETECTION LIMIT	ANALYST		
970317-001-03	PNAH 1	BENZO(K)FLUORANTHENE	0.20	PPM	0.0005	Jacob F.		
	EPA 8270M (SIM)	CHRYSENE	0.055	PPM	0.00005	•		
		DIBENZO(AH)ANTHRACENE	0.057	PPM	0.0005			
		FLUORANTHENE	0.13	PPM	0.00005			
		FLUORENE	0.0085	PPM	0.00005			
		INDENO(1.2.3-CD)PYRENE	0.057	PPM	0.0005	,		
		NAPTHALENE	0.00096	PPM	0.00005	•		
		PHENANTHRENE	0.058	PPH	0.00005			
		PYRENE	0.11	PPM	0.00005			
		SURROGATE	94%	*RECOVERY	50%-150%			

COPY

Columbia Inspection, Inc. 7133 N Lombard St. - Portland, OR 97203 (503) 286-9464 Fax (503) 286-5355

	-
$\boldsymbol{\Sigma}$	
(oppe	-
Koppers003187	
3187	

PERMITTEE NAME/ADDRESS (Include

PERMITTEE Facility Nam NAME ADDRESS	NAME/ADDRESS (Include ne/Location if different)  7540 NW ST HELEN PORTLAND, OR 972	Alion if different) KOPPERS IND. INC.  NW ST HELENS RD		NATIO	PERMIT NUMBER DISCHARGE NUMBER OI			Form Approved. OMB No. 2040-0004 Approval expires 10-31-94		<b>.</b>						
FACILITY	NORTHWEST TERMIN	JAT. — — — —				MONI	TORING	G PER	IOD		47430	А	pprovai ex	pires i	0-31-94	
LOCATION	MULTNOMAH CO.			 FROM	<u> </u>		AY TO	YEAR		DAY				•		
					9/ (	03 0 (2-23) (24	'T	(26-27)	(28-29)	(30-31)	NOTE: Read i	nstruc	tions befor	re com	pleting this	form.
	PARAMETER		(3 Card Only) Qu (46-53)	JANTITY OR (54-6	LOADING		(4 Card		Only) QUALITY OR CO			1		NO. FREQUENCY OF ANALYSIS	FREQUENCY	SAMPLE TYPE
	(32-37)		AVERAGE	MAXIM	MUM	UNITS	МІІ	MUMIN	,	AVERAGE	MAXIM	UM	UNITS	(62-63)	(64-68)	(69-70)
		SAMPLE MEASUREMENT	17,742			GPD								N/A	15/31	EST.
	FLOW	PERMIT REQUIREMENT														·
		SAMPLE MEASUREMENT					48	3		50	53		$\circ_{ m F}$	0	15/31	GRAB
	TEMP	PERMIT REQUIREMENT					N,	′A		N/A	N/A					
	PERMIT	SAMPLE MEASUREMENT						5.9		7.1	7.3		SU	0	15/31	GRAB
·		PERMIT REQUIREMENT					(	5.0			9.0					
		SAMPLE MEASUREMENT						1.D.		3.2	6.8		ma /T	0	15/31	GRAB
	OIL & GREASE	PERMIT REQUIREMENT					(	)		10	15		mg/L			
		SAMPLE MEASUREMENT						)5		.17	.5		mg/L	0	15/31	GRAB
	PHENOLS	PERMIT REQUIREMENT					C	)		.5	.7		mg/ L			
		SAMPLE MEASUREMENT		·												
		PERMIT REQUIREMENT														
		SAMPLE MEASUREMENT														
		PERMIT REQUIREMENT														
NAME/TITL	E PRINCIPAL EXECUTIVE	AND AM	FY UNDER PENALTY ( 1 FAMILIAR WITH THE	INFORMATION	SUBMITTED F	HEREIN; AN	D BASED				-	<u> </u>	TELEPHON	E	DA	TE
	COLL THE W.D.	OBTAINII TRUE, SIGNIFIC	INQUIRY OF THOSE NG THE INFORMATION ACCURATE AND CO ANT PENALTIES FOR	N. I BELIEVE T OMPLETE, I AI SUBMITTING	HE SUBMITTE M AWARE ' FALSE INFOR	ED INFORM THAT THE RMATION, IN	ATION IS TRE ARE NCLUDING	Amos			t. Mgr.	503	8 <b>–</b> 286–36	581	97 04	17
R.D.	COLLINS, V.P.	33 U.S.	SSIBILITY OF FINE AN C. § 1319. (Penalties and or maximum impriso	under these s	tatutes may	include fin		1			L EXECUTIVE	AREA	NUMB	ER	YEAR MO	
COMMENT A	ND EXPLANATION OF AN	Y VIOLATIONS (Re	ference all attachment	ts here)				1				<u>,                                    </u>				

first quarter PAH test results are attached, SEE LETTER ATTACHED

12:21

30 April 1997

Oregon

AMOS S KAMERER
PLANT MANAGER
KOPPERS INDUSTRIES INC
7540 NW ST HELENS RD
PORTLAND OR 97210

DEPARTMENT OF ENVIRONMENTAL QUALITY

Re:

WQ-Multnomah County Koppers Industries, Inc.. Facility No. 47430 WQ-NWR-97-041

NORTHWEST REGION

NOTICE OF NONCOMPLIANCE

Dear Mr. Kamerer:

A review of your facility's discharge monitoring report for March 1997 shows that the following exceedence occurred at the above facility on March 6, 1997:

Maximum PAH in effluent 1.653 mg/L (allowable is 1.0 mg/L)

This is the second Class II violation of your permit. Oregon Administrative Rule 340-12-041(2)(c) provides that a permittee shall not receive more than three NONs for Class II violations of the same permit within a thirty-six (36) month period without being issued a Notice of Permit Violation (NPV). If additional Class II violations occur, we will be referring these violations to the Department's Enforcement Section for the issuance of a NPV. The NPV is a formal enforcement action that requires you to submit one of the following within five working days of its receipt: (1) a certification of full compliance with all permit conditions; or (2) a detailed plan and time schedule demonstrating what steps will be taken to gain compliance, together with interim measures taken to reduce the impact of the violations, and a statement that the permittee has reviewed all of the conditions and limitations of the permit and is in compliance with all other provisions.

If the Department can be of any help in preventing further violations, please call Elliot Zais at 229-5292.

Sincerely,

neil J. Mullane, Manager

Water Quality Source Control

John A. Kitzhaber Geverner

EJZ

cc:

WQ Enforcement Post-It "brand fax transmittal memo 7671 # of pages >

To B. Swenningen From Am as

This Fax your Files

20 SW Fourth Avenue ate 400 rtland, OR 97201-4987 33) 229-5263 Voice Y (503) 229-5471

Q-1



Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

Amos S. Kamerer PIANI MARKORI

Telephone: 503-286-3881 Fax: 503-285-2831

Mr. John Holtrop Environmental Tech II City of Portland Environmental Services 6543 N. Burlington Ave, Portland, Oregon 97203-5452

August 9, 1999

Reference: Batch Discharge Permit

Dear John,

This is to confirm are conversations earlier this week.

I would like to request a Batch Discharge Permit for the one time discharge of approximately 2,074,000 gallons of city water, after we have completed the hydro testing of our new pitch storage tank. The tentative schedule for this testing is to start filling the tank on Monday August 27th. We are estimating that it will take us about 36 hours to fill the tank, thus, we are estimating that the discharge will commence on Wednesday the 29th, after the testing for the lack of chlorine has been completed by Columbia Laboratories. We estimate that the discharge will take about 60 hours, thus, we should be finished some time on Saturday October the 2nd.

285 3681

I have reviewed this plan with the ODEQ, the Portland City Water Bureau and my landlord, NW Natural. The Water Bureau has asked that we advise them when we start to fill the tank, and we will be sure to do so; otherwise, no additional requirements were requested.

I believe that this provides you with the information requested, if there is any additional information that you require, please advise. I would appreciate your prompt attention to this request, so that we will be ready to go on the dates above.

Thank you for your help and advice, in putting this together.

Sincerely,

Amos S. Kamerer CC: T. Self. KII M. Cilley, KII

				Leave Blank: City use only Date Received:
		GENERAL INF	ORMATION	
C				And the state of t
Sig	ning official must have	authorization to provide such inform	n or clearly printed. ation on behalf of th	Attach requested information as needed. e company, corporation, or partnership.
1.	Company Name/Tele Division name:	phone number: Koppers (if applicable) Tar Oper		Inc./412-227-2001
. 2.	Mailing Address:	Street or P.O. Box: 436 Seve City, State, Zip Code: Pittsbur	nth Avenue gh, PA 15219	9-1800
3.	Facility Address: (if Street or P.O. I City, State, Zip			
4.	Person to be contacte	ad about this form:		
	Name:	<u> Wi-lliam E. Swe</u>		
	Address:	Koppers Indust		436 Seventh Avenue
	City, State, Zip Title:	Code: Pittsburgh PA Manager: Envir		20200
	Phone Number:	412-227-2883		-2423
5.		d in case of an emergency:		
	Name: Address:	Amos Kamerer Koppers Indust	ries. Inc	7540 NW St. Helens Road
	City, State, Zip		97210-3663	1340 IM St. HETERS ROBU
	Title:	Code: Portland OR Plant Manager		
	Phone Number:		FAX - 285-	-2831
Cor	nfidentiality			•
	ase indicate those sect fidentiality.	ions of this questionnaire that you	wish to remain cor	nfidential and your basis for requiring
Qua	alified Professional Cert	ification		•
requ Ord	nirements as specified in	the Federal General Pretreatment Re	gulations and amend	ments thereto, and the City's Sewer Use mation, including the possibility of fine
	illiam E. Swear ne (print)	ingen	•	
	_ n			
WAL	·6/ ·			
UM.a	M CX INCANIN	nen MGR: Env. Progra	ms 7/28/94	412-227-2883
Sign	nature	Title	Date	Phone
Aut	horized Representative	Statement		
atta con pen	chments therein. Further tained in this report. I alties for submitting fals	ermore, based on my inquiry of those believe that the information is true, a	persons immediately : accurate, and complet y of fine and imprison	th the information in this report and all responsible for obtaining the information in it. I am aware that there are significant timent. I further certify that the sampling charges.
_ <b>A</b> n	nos Kamerer			
Nan	ne (print)			
	•			
		Plant Manager	7/29/94	503-286-3681
Sign	nature	Title	Date	Phone

#### Section I-Water/Wastewater Data

businesses, estimate flov	vs).	Supp City Water	oly From(gal	Vday)		Disc	harged To(g	daily (for al/day) Other
Water Used for:		City Wait	i Outer	<u> Jource</u>		Sautary	<u>Sewei</u>	Oulei
Sanitary	City	of Port	1and/31	5 GPD	S	anitary	Sewer/2	200 GP
Processes (see No. 10 f	or categoric	al users)		<del></del>				
Boiler/Cooling Tower	City	of Port	1and/76	50 GPD				
Cooling Water Contact	<u> </u>		,					
Washing (equipment wa	shdown)	<del></del>				· · · · · · · · · · · · · · · · · · ·		
Irrigation				,,,,,				
Air Pollution Control								
Surface Water	from	rainfal	1/4000	GPD	N	PDES/40	00 GPD	
Water Hauler					W	illamet	te Rive	c
Other(Describe)								
Total:							-	
Water Account Number	46401	72034 M	0178					
Are, or will, the dischar				17				
if batch discharge occurs or will occur, indicate:								
(a) Percent processing		•	•					
(b) Percent processing				_				
				<del></del>				
(c) Number of batch of	nscharges _	(per week)	11 at (ho	ours per di	scharge)			
(d) Average quantity p	er batch	N/	A gallor	ıs			•	
(e) Flow rate N/A	gallons	/minute						
Discharge Period								
(a) Hours of Day Ope	rated or pla	nned: M <u>2</u>	4 T 24	<b>w</b> 24	Th 24	F_24	Sat 0 S	un_0_
(b) Duration of Discha	rge (hrs/day	y): M_2	<u>4</u> <u>T 24</u>	<b>w</b> 24	Th 24	F 24 5	Sat 0 St	an O
Variation of Operation					-			
Is the business or propo Continuous throug Seasonal [ ]Circ	the year (	x], or	ur during wh	iich discha	rge occur	s:		,
J F	M A	M J	J A	s o	N I	)		

#### Section I-Water/Wastewater Data

8.	List existing or proposed p with No. 1, see Attachmen		ets, size, and flow (assign sequential n	eference number to each sewer starting  Daily
	Reference No.	Sewer Size (inches)	Descriptive location of sewer connection or discharge point	Avg. flow (gal/day)
	Unknown	8	Connect to 36" main	200
	· · · · ·			
9.	General characteristic of v	vastewater or pr	oposed wastewater discharge: (provi	de specific values for a. b. d. e. f. if
	(b) pH level: Do (c) Flammable or explos (d) Fats, oils, and grease (e) 800 (mg/L): (f) TSS (mg/L):	ive materials: \\ (mg/L): Don't know Don't know erial Yes [ ]	[x] No [x] Don't know [] Don't know [x] [x] [x] No [] Don't know [x]	ONMENTAL SURVEY B
10.		rovide the follow	t know [ ]  ring flows for each of your regulated	processes or proposed regulated process
			y categorical pretreatment standards).  (gpd) discharged to the sewer system	<b>.</b>
	Average None	_	Maximum None	u.
	(b) Individual Process Fl			<b>.</b>
	No. Regulated Pr	rocess flo	Average Maximum  wrate (gpd) flowrate (gpd)	Type of Discharge (batch, continuous, none)
	Not appl:	<u>icable</u>		
11.	Is an inspection and sample	ing manhole str	ucture available onsite? Yes [ ] N	lo [ x]
	<ul> <li>If yes, provide locati</li> <li>Location description:</li> <li>If no, is one planned</li> </ul>		oclude as part of the process flow sch	ematic (see Attachment O).
12.	use or included in future p Current: Sampling Equip	olans? oment Yes [ ]	No [ ] N/A [x] Flow Metering No [ ] N/A [x] Flow Metering	r flow metering equipment currently in  Yes [ ] No [ ] N/A [x] Yes [ ] No [ ] N/A [x]
	If so, please indicate the probelow:	resent or future l	location of this equipment on the sewe	er schematic and describe the equipment
13.	Does your facility pretreat	or plan on pres	reating any wastewater prior to discharge	arge to a sanitary sewer?
	Yes [ ] No [x] N/A	[]		

## Section II-Business/Facility Description

PURPOSE-The business description is prim	urily used to	determine	the substances	which may enter	r into the	wastewater
discharge from the business activity.						**

1. <u>Bu</u>	siness activity(	Complete a separat	sheet for each major	or proposed	business activity or	product line on premises.)		
Ac	ivity: Melt	ing & Blend	ng & Blending SIC Nos.:			· .		
(a)	Raw materials	used or planned i	or use:					
	Coal Tar	Products						
(b)	Chemicals use	ed or planned for u	se:					
(-)		Products	<u> </u>					
(c)	Product (new	businesses provide	best estimates):					
		Past Cal	Past Calendar Year			alendar Year		
Type of	Product	Amounts Per Da	ay (Daily Units)		Amounts Per Day	(Daily Units)		
(Brand	Names)	Average	Maximum		Average	Maximum		
Creos	ote 5	000 Gal.	15000 Gal.		1500 Gal	15000 Gal.		
Pitch	·	90 Tons	270 Tons		90 Tons	270 Tons		
	· · · · · · · · · · · · · · · · · · ·				**			
(d)	variations in p	Describe each wast production and open s wastewate	ewater generating or rations during the year r generated	proposed op r. (Use addi	perations or manufational sheets as nec	acturing process. Indicate essary.)		
<b>(</b> e)	Substances Discharged—Give common and technical names of each major raw material and product that may be discharged to the sewer. Briefly describe the physical and chemical properties of each substance and products. (use additional sheets if necessary.)							
		NAME			DESCRIPTION			
	No proces	s wastewate	r is discharg	ed				

9

2.

1.	Summarize	Each Regulated	Process:
----	-----------	----------------	----------

		Pretreatment Standard		•
Process Description	Production Rate	Category	Subpart	Flow
Blending	N/A	414	G	None
Melting	N/A	414	G	- None
	·			
Total plant flow: No.	ne			
-	on of Pollutants (report c	oncentrations in mg/L o	or mass in lbs):	
a. Analysis of Regul	lated Flows	-		. •
additional sheets regulated by the a samples and how alongside the regu	rovide the analytical dat if necessary (simply xero applicable category need to many samples to take. alated process line what p	ox the table and question be reported. Refer to be If the effluent sample process flows are comm	ons below). Only those ckside for further instructs were taken at one coingled at this point.	e pollutants specifically ctions on where to take ombined point, indicate
Regulated Process	line(s): None			
Process Flow(s) (	Daily ave. in mgd):	None		
ANA	ALYTICAL RESULTS O	F PROCESS WASTEW	ATER DISCHARGES	
Pollutant	1	None		
Monthly Avg. Limit	1	Not applicable		
Reported Average				
Daily Max. Limit				
Reported Maximum				
b. Sample type (grab	o, composite):			
c. Number of sample	es collected (explain):			
d. Dates and times s	amples collected:		· · · · · · · · · · · · · · · · · · ·	
e. Sample collection	location:			
f. Where samples an	nalyzed:			
g. Methods of analys	ses:			
h. Provide name and	address of commercial l	abs performing analyses	s:	
Name:		Address:		
Name:		Address:		

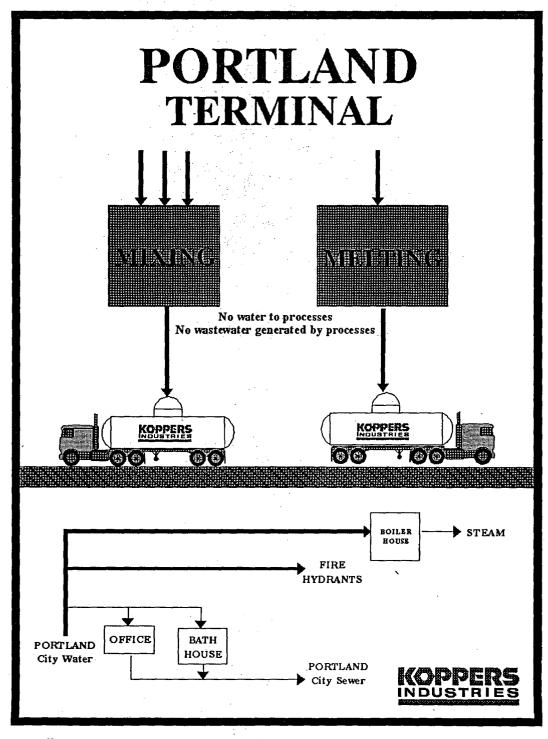
## Section III-Permit Application Monitoring

PA	RT	B:	CATEGORICAL	USERS

100	<u> </u>	CATEGORICAL COER	₹ .			
4.	Tota	al Toxic Organics (TTOs):	Not applicab	le	··· .	
	com toxic	) pretreatment standards and pliance with TTO standards	s listed by EPA in its published must initially sample for TT can develop a solvent manage toxic organics in your manu- tion "A" below.	O and determine ement plan in lie	compliance. Facilities fou u of having to periodically	nd to be in sample for
	(a)		n to use any of the toxic organicatment standards published by		under the TTO standard lo	cated in the
	<b>(</b> b)	We presently use or plan t Parts c and d.	o use organic toxicants listed i	n the categorical	pretreatment standards. [	] Complete
	(c)	A PAMF has previously b Yes [ ] No [ ]	een submitted which contains	TTO information.		
	(ď)	A solvent management pla Yes [ ] No [ ]	n has been developed and is a	ttached.		
5.	Con	npliance Certification	Not applicable	2		
	(a)	Is the facility meeting app Yes [ ] No [ ]	licable categorical pretreatmen	standards on a c	onsistent basis?	
	<b>(</b> b)	If no, do you require:				
		1.1	and maintenance (O&M) to ac etreatment facilities to achieve	•		
	(c)	on a consistent basis, attace indicating dates for the con Note: The final complian	or additional pretreatment with a description of it and a schemmencement and completion of the date in this schedule shall ritten progress reports are recesschedule.	edule on separate of major events le not be later than	sheets. Project increments ading to compliance with the the compliance date for the	of progress he standard. e applicable
	(d)	I have provided a c	ompliance schedule.			
l be requ	reby o	nts as specified in the Gener	that this information was ob al Pretreatment Regulations an alties for submitting false info	d amendments the	reto and the City's sewer us	e ordinan∝.
	llia œ (pri					
•		She in a				
un	Anne ature	Milaunge	Mgr., Env. Program	8/5/94	412-227-2883 Date	Phone
•		O				
ttac cont pena	ntify the hmen ained lities f	ts therein. Furthermore, bas in this report. I believe that for submitting false informati	nave personally examined and ed on my inquiry of those pers at the information is true, accu- on, including the possibility of normal work cycles and expec	ons immediately rate, and complete fine and imprison	esponsible for obtaining the L. I am aware that there an ment. I further certify that t	information significant
	os K oc (pri	(amerer int)	<del>-</del>			
			Plant Manager	8/8/94	503-286-3681	
Sign	ature		Title		Date	Phone

#### ATTACHMENT A-SCHEMATIC FLOW DIAGRAM

For each major activity in which wastewater is generated, draw a diagram of the flow of materials and water from start to completed activity, showing all unit processes generating wastewater. Number each unit process having wastewater discharges to the community sewer. Use these numbers when showing this unit process in the building layout in schematic. Use the space below or additional sheets of 8x11 paper. An example is provided on the backside.



#### ATTACHMENT B-BUILDING LAYOUT

Draw to scale the location of each building on the premises. Show location of all water meters (current and planned), storm drains, numbered unit processes (from process schematic(s)), community sewers and each side sewer connected to the community sewers, automatic sampling equipment (current and planned), location of pretreatment processes, treated flows and untreated flows, name and location of pertinent streets. Use flow schematic to indicate process and process discharge in gpd. Number each side sewer and show possible sampling locations (sampling manhole).

An attached blueprint or drawing of the facilities showing the above items may be substituted for a drawing on this sheet. See example on the back.

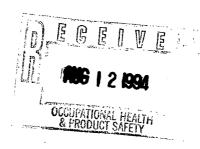
# SEE ATTACHED DRAWING L-7106-15

## **KOPPERS**

7540 N.W. St. Helens Rd. Portland, Oregon 97210 (503) 286-3681

3/8/94

Bill Sweamingen K-180 Pgh



Here Are copies of the other 2 Surrey's And A copy of the Draming with the water meter wore.

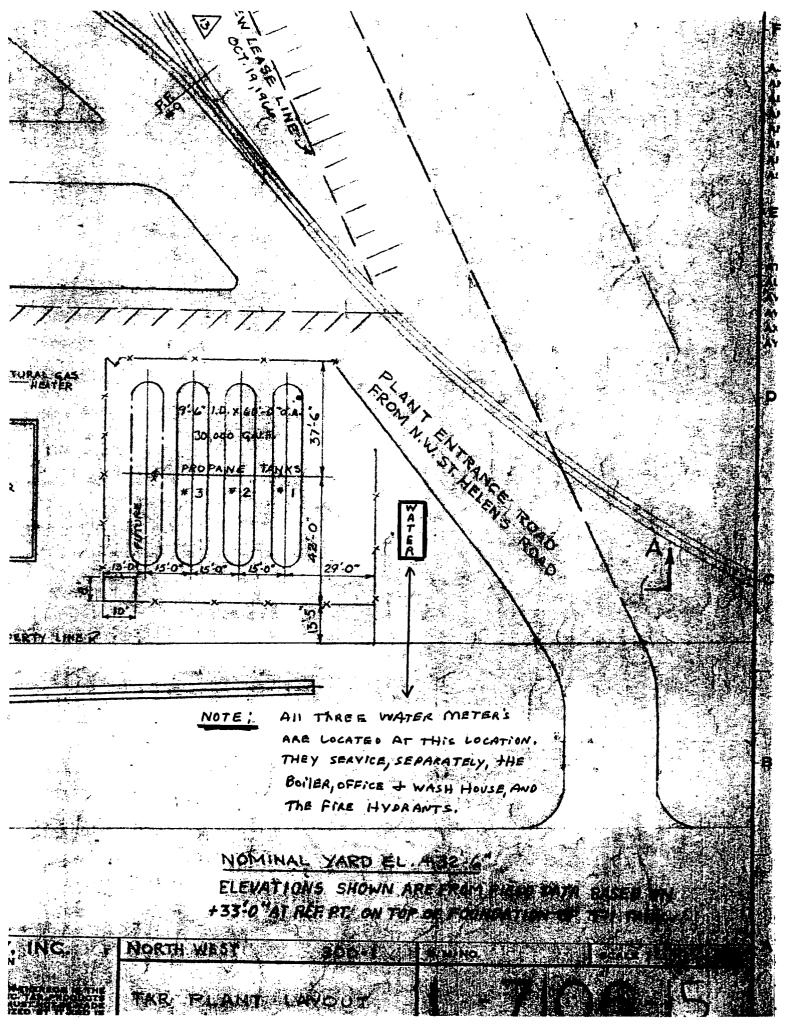
> Tx. Amos

> > AMOS S. KAMERER

# F TRONMENTAL SURVEY A



-		All the state of t
	PORTLAND, OREGON Environmental Survey	LEAVE BLANK City Use Only
	BUREAU OF ENVIRONMENTAL SERVICES Wastewater Generating Characteristics	Date Received: http://doi.org/10.100/10.100
· ·	e complete in full, either typed or printed clearly.	Treatment Plant: Service Area:
		Pump Stations:
SECI	TION A - GENERAL INFORMATION	A comprehense of the comprehense
AI.	Company name: KOPPERS INDUSTRIES INC	Sewer Node:
<b>A2</b> .	Division name: TAR PRODUCTS	1 (19 1 (19 2) A STAF (1) (2) (1 ) (1 ) (2) (2) (1 ) (1 )
<b>A</b> 3.	Address of the facility:  7540 NW ST HELENS ROAD  A4. Mailing address:  SAME	
	PORTLAND OR 97210-3663	Southern of the source of the
AS.	Name AMOS S. KAMERER	र्वे ४०० में व स्थाप को आकार में आवार एक के अस्त्री 🗀
	Title PLANT MANAGER Telephone 286-3681	FAX (285-2831) (20 (15-285-25)
A6.	Brief description of business-principal products and services:  A TERMINAL FACILITY FOR COAL TAR BASED PRODUCTS AS FOLLOWS:  PENCIL PITCH, LIQUID PITCH, CREOSOTE, CREOSOTE DISTILLATES AND	and the state of t
A7.	Is the building presently connected to public sewer system?  If no, have you applied for a sewer connection?  Estimated date of connection	
A8.	Standard Industrial Classification Number(s) (SIC Code if known).  2865  Busi	ness License No.: 398554
A9.	Do you or will you discharge oils, grease, or fats to the public sewer?	[]Yes[]No
A10. :		Yes     No     Yes     No     Yes     No
All.	What is your normal (requency of cleaning the oil and grease trap? Where do you dispose of trapped of N/A	il and grease?
A12.	Do you or will you have chemical storage containers, bins, or ponds at your facility?	<del></del>
A13.	Have you been issued a local, state, or federal environmental permit?  If yes, please list the types of permit(s). NPDES #101003, FACILITY #47430	
A14.	Do you or will you have floor drains in your manufacturing or storage area?  If you have chemical storage containers, bins, or ponds, or floor drains in manufactoring or storage are discharge to an onsite disposal system (e.g., through a floor drain)?	a, could an accidental spill lead to a
•	Public sewer?  To storm drain?  To ground?	
A15.	Do you or will you discharge wastewater (other than domestic waste from bathrooms, toilets, etc.) to a or storm sewer?	n onsite disposal system?
A16.	Do you or will you discharge wastewater (other than domestic waste from bathrooms, toilets, etc.) to the	ne public sewer system? [] Yes [X] No
syste syste	rify under penalty of law that this document and all attachments were prepared under my direction or subject that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry and or those persons directly responsible for gathering the information, the information submitted is, to the rate, and complete. I am agrife that there are significant penalties for submitting false information, including violations.	of the person or persons who manage the ne best of my knowledge and belief, true,
	Signature Title PLANT MANAGER	Date 8/0/94
	(4) A.S. Espera	



CTION B - 1	DETAILED WASTEWATEI	Con	npany Name K	OPPERS INDUS		s set using the	
. Please de NC	escribe processes to be used in PROCESS WASTEWATER	n your facil	ity that will resu	ORTLAND OR	97210 stewater discharge	to the public sewer system. TER IS COLLECTED	AND
DIS	CHARGED TO NPDES (	UTFALL	DOMESTI	C SEWAGE ONL	Y TO CITY OF	PORTLAND.	
	erren er				9 44 34		. !
. This faci	lity generates or will generate	the follow	ing types of wast	es (check all that ap Average gallons	ply): Peak gallons		
	nestic wastes (restrooms, empirate 35 gallons per day for e			per day 200	per day 350	•	
[ ] Coo	oling water, noncontact ler/Tower blowdown		•		<del></del>		·
	oling water, contact cess						
	ipment/Facility Washdown Pollution Control Unit						
[ ] Sto	rmwater runoff to sewer ner (describe)						•
	anup		-	<del></del>			
		Total		200	350		
MIXTUR	ES		MIXING 8	MELTING			
4. Water su (City, W	pplied from: (Best estimate ell, etc.)	if not meter	red)				
Water Sc	Ource(s) Water Acct No	: .	Water (	Quantities*	•	•	
a. <u>CI</u> b	464017203		*1 ccf = 748 ga	29	gal/day gal/day gal/day		
		Total	`				
(check a [X] San [ ] Stor [X] Surr [ ] Gro	are discharged or may be disc Il that apply) itary sewer rm sewer face water NPDES oundwater (onsite disposal) ste haulers	harged to:	Average gallons per day 200 4000	Peak gailons per day 350		•	
[ ] Oth	er (describe)	Total	4200	6350			•
Are the	discharges batch fy ]? continu	1001S [ ]?					

Acids		nese wastes may best be described as:		3		The second secon
Acids   Alkalies   Heavy metal studges   Inks/dyes   Inks/dyes   Inks/dyes   Ioland/or grease   Ioland/o			Estimated gallons or pounds			
[ ] Acids		· · · · · · · · · · · · · · · · · · ·	per year			*
Altalies   Heavy metal studges     Inits/dyes     Oit and/or grease   Organic compounds   Paints   Pesticides   Plating wastes   Plating wastes   Plating wastes   Pretreatment studges   Solvents/thinners   Other hazardous wastes (specify)	te	em No.				
Altalies   Havy metal studges   IntsAdyes   Paints   IntsAdyes		[ ] Acids				
Heavy metal studges   InksAyes   Oil and/or grease   Organic compounds   Paints   Pesticides   Plating wastes   Plating wastes   Prating wastes   Prating wastes   Prating wastes   Pretreatment studges   Solvents/thianers   Other hazardous wastes (specify)      Other hazardous wastes (specify)      Other wastes (specify)   Offsite storage   Incation   Incation						
Ints/dyes   Oil and/or grease   Organic compounds   Paints   Pesticides   Paints   Pesticides   Phing wastes   Pretreatment studges   Pretreatment studges   Solvents/shinners   Other hazardous wastes (specify)						
Organic compounds   Organic compounds   Paints   Pesticides   Pesticides   Pretreatment studges   Pretreatment studges   Solvents/thinners   Other hazardous wastes (specify)			<del></del>			
Paints   Pesticides   Pesticides   Plating wastes   Pretreatment studges   Pretreatment studges   Solvents/thinacers   Other hazardous wastes (specify)		• • •				
Pesticides   Plating wastes   Plating wastes   Pretreatment studges   Pretreatment studges   Solvents/thinners   Other hazardous wastes (specify)		[ ] Organic compounds				
Pretreatment studges   Pretreatment studges   Solvents/hinaers   Other hazardous wastes (specify)		[ ] Paints				
Pretreatment sludges   Solvents/thinaers     Other hazardous wastes (specify)     Other wastes (specify)     Other wastes (specify)     Other wastes (specify)     Other wastes (specify)     Onsite storage   Society     Onsite storage   Society     Onsite storage   Society     Hauler's name   Society     Auler's DEQ permit #     phone number   DEQ permit #     Offsite disposal     Offsite disposal     Hauler's name   Society     Auler's DEQ permit #     phone number   DEQ permit #     phone number   DEQ permit #		[ ] Pesticides			•	•
[] SolventsAhinners [] Other hazardous wastes (specify)  [] Other wastes (specify)  [] Other wastes (specify)  For the above checked wastes, does your company practice:  [] Onsite storage     location [] Offsite storage     hauler's name     address     hauler's DEQ permit #     phone number [] Onsite disposal [] Offsite disposal     hauler's name     address     hauler's DEQ permit #     phone number						•
[ ] Other wastes (specify)  [ ] Other wastes (specify)  [ ] Onsite storage location [ ] Offsite storage hauter's name address hauter's DEQ permit # phone number [ ] Onsite disposal hauter's name address hauter's name						•
[ ] Other wastes (specify)  For the above checked wastes, does your company practice:  [] Onsite storage   location    [] Offsite storage   hauler's name   address   hauler's DEQ permit #   phone number    [] Onsite disposal    [] Offsite disposal   hauler's name   address   hauler's name   address   hauler's DEQ permit #   phone number						
For the above checked wastes, does your company practice:  [] Onsite storage   location   [] Offsite storage   hauler's name     address     hauler's DEQ permit #     phone number   [] Onsite disposal     hauler's name     address     hauler's name     address     hauler's DEQ permit #     phone number		[ ] Other hazardous wastes (specify)				
For the above checked wastes, does your company practice:  [] Onsite storage location  [] Offsite storage hauler's name address hauler's DEQ permit # phone number  [] Onsite disposal  [] Offsite disposal hauler's name address hauler's DEQ permit # phone number						
For the above checked wastes, does your company practice:  [] Onsite storage location  [] Offsite storage hauler's name address hauler's DEQ permit # phone number  [] Onsite disposal  [] Offsite disposal hauler's name address hauler's DEQ permit # phone number						
For the above checked wastes, does your company practice:  [] Onsite storage   location   [] Offsite storage   hauler's name     address     hauler's DEQ permit #     phone number   [] Onsite disposal     hauler's name     address     hauler's name     address     hauler's DEQ permit #     phone number						
For the above checked wastes, does your company practice:  [] Onsite storage location  [] Offsite storage hauler's name address hauler's DEQ permit # phone number  [] Onsite disposal  [] Offsite disposal hauler's name address hauler's DEQ permit # phone number		( ) Other water (english)				
Onsite storage   location     Offsite storage   hauler's name   address   hauler's DEQ permit #   phone number     Onsite disposal   Offsite disposal   hauler's name   address   hauler's DEQ permit #   phone number		[ ] Other wastes (specity)				
Onsite storage   location     Offsite storage   hauler's name   address   hauler's DEQ permit #   phone number     Onsite disposal   Offsite disposal   hauler's name   address   hauler's DEQ permit #   phone number			•			
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[ ] Onsite storage location [ ] Offsite storage hauler's name address hauler's DEQ permit # phone number [ ] Onsite disposal [ ] Offsite disposal hauler's name address hauler's DEQ permit # phone number						
[ ] Onsite storage location [ ] Offsite storage hauler's name address hauler's DEQ permit # phone number [ ] Onsite disposal [ ] Offsite disposal hauler's name address hauler's DEQ permit # phone number	F	or the above checked wastes, does your company a	oractice:			
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Offsite storage hauler's name address hauler's DEQ permit # phone number     Onsite disposal     Offsite disposal hauler's name address hauler's DEQ permit # phone number						
hauler's name address hauler's DEQ permit # phone number  [] Onsite disposal [] Offsite disposal hauler's name address hauler's DEQ permit # phone number		Onsite storage				
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phone number  [] Onsite disposal  [] Offsite disposal  hauler's name  address  hauler's DEQ permit #  phone number		location  Offsite storage hauter's name				
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	[ ]	location  ] Offsite storage hauler's name address hauler's DEQ permit # phone number  ] Onsite disposal Offsite disposal hauler's name address		·		
Describe the method(s) of storage or disposal checked above.	֓֞֞֜֞֜֞֜֞֜֞֟֜֞֝֟֜֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝	location  Offsite storage hauler's name address hauler's DEQ permit # phone number  Onsite disposal Offsite disposal hauler's name address hauler's DEQ permit #		•		
Describe the method(s) of storage or disposal checked above.		location  Offsite storage hauler's name address hauler's DEQ permit # phone number  Onsite disposal Offsite disposal hauler's name address hauler's DEQ permit #		·		
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	[]	location  Offsite storage hauler's name address hauler's DEQ permit # phone number  Onsite disposal Offsite disposal hauler's name address hauler's DEQ permit # phone number				

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	Generic Type	Amount Per Year	Storm Sa	nitary	Storm	Sanitary	Chemical Constituents or Brand Name
. Exe	mple: Degreaser	3 gallons	·		<u>x</u>		Trichloroethylene
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B11.	a. SEE THE ATT. b. c. d.		MARSHA	LL'S	SURVEY		
	a. SEE THE ATT. b. c. d. Do you have an accidental spi	ill prevention pr	MARSHA	LL'S	SURVEY		993
	a. SEE THE ATT. b. c. d.  Do you have an accidental spill yes, attach plans.  Characteristics of Wastewater	ill prevention pr  on't know []  now [] aterials Yes [] Yes []	MARSHA Ogram for the No gl Do No Dl Do No [] Do	LL'S  acid  at known kno	SURVEY	{ ] No	993
812.	a. SEE THE ATT. b. c. d.  Do you have an accidental spill yes, attach plans.  Characteristics of Wastewater a. Temperature Don't lo c. Flammable or explosive ind d. Solid or viscous materials e. Priority pollutants (See Attachment A for the pr	ill prevention pr  con't know [] now [] Yes [] Yes [] Yes [] inority pollutants is that has been onnaire. Be sure	MARSHA  No KI Do  No DI Do  No DI Do  ist.)	LL'S  ic facil  in't known't k	SURVEY  ity? [4] Yes  ow [ ]  ow [ ] If yes  wastewater of the ans	{ ] No	Emergency response plan? [6] Yes [1] No
812.	a. SEE THE ATT. b. c. d. Do you have an accidental spill yes, attach plans.  Characteristics of Wastewater a. Temperature Don't lo. Flammable or explosive ind c. Flammable or explosive ind d. Solid or viscous materials c. Priority pollutants (See Attachment A for the priority pollutants)  Attach any wastewater analysis recent lab data to this question	ill prevention pr  con't know [] now [] Yes [] Yes [] Yes [] inority pollutants is that has been onnaire. Be sure	MARSHA  No KI Do  No DI Do  No DI Do  ist.)	LL'S  ic facil  in't known't k	SURVEY  ity? [4] Yes  ow [ ]  ow [ ] If yes  wastewater of the ans	{ ] No	Emergency response plan? [6] Yes [7] No  e Attachment A.  s) from your facilities in the last year. Attach a copy of the more

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	rial Categories		and the second	7.293	and a state of	in attraction	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Section	g the year	1 \$ 15 mg.	ته چيشت	Walter Control	What?
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B14. If your facility uses processes in any of the industrial categories or business activities histed below and any of these processes generate or cogenerate

B15į,	Attach a simple schematic drawing(s) of your facility, indicating: (Drawings should be 11 x 17, or smaller)
•	a. Location and size of all service outlets, process drains, floor drains b. Existing sampling manholes or locations where samples may be collected c. Current or planned flow metering equipment d. Current or planned automatic sampling equipment e. Location of pretreatment processes, treated flows, and untreated flows f. Location and name of pertinent streets g. Flow schematic to indicate process and process discharge in gpd h. Chemical storage location i. Storm drain location, if known
B16.	Pretreatment devices or processes used for treating wastewater or sludge (check as many as appropriate).
B17.	Air Botation   Carbon filtration   Carbon filtration   Carbon filtration   Chemical precipitation   Chlorination   Cyclone   Evaporation   Filtration, Multi-media   Filtration, Multi-media   Filtration, Multi-media   Filtration, Rotary   Filtration, Sand   Flow equalization   Fow equalization   Grease or oil separation, type   Grease trap   Grinding filter   Grit removal   Ion exchange   Neutralization, pH correction   Ozonation   Reverse comosis   Screen   Sedimentation   Sepite tank   Sovent separation   Spill protection   Spill protection   Spill protection   Spill protection   Spill protection   Spill protection   Other chemical treatment, type   Rainwater diversion or storage   Other chemical treatment, type   Other physical treatment, type   Other physical treatment, type   Other, type   Other physical treatment, type   Other physical treatment provided   Is additional pretreatment required?   Yes   No   Don't know   If yes, describe necessary pretreatment.
B18.	Is industry in compliance with City industrial pretreatment ordinance? [X] Yes [] No [] Don't Know See ordinance.
B19	Is industry in compliance with Federal Categorical standards? [6] Yes [1] No [1] Don't Know
B20	Are any process changes or expansions planned during the next three years? [] Yes [½] No If yes, attach a separate sheet to this form describing the nature of planned changes or expansions.
B21	Please describe any previous spill events and remedial measures taken to prevent their reoccurrence:
	OCCASIONAL SPILLAGE OF MATERIALS FROM LOADING AND UNLOADING OPERATIONS. PAVING AND
	DIKING ADEQUATE TO CONTAIN MATERIALS. MOST MATERIALS CLEANED UP AND RECYCLED BACK
	TO PRODUCT. ANY SOLID WASTE IS DISPOSED OF IN APPROPRIATE MANNER.

	TO WILLAMETTE RIVER IN COMP	
#101003. ONLY SANITARY WAST	E IS DISCHARGED TO SEWER TO	CITY OF PORTLAND.
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••		Table 19 (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997)
ertify under penalty of law that this document and all a ure that qualified personnel property gather and evalua	ate the information submitted. Based on my	inquiry of the person or persons who manage the
tem, or those persons directly responsible for gathering turate, and complete. I am		
	cant permitted for adoluting more intermetted	.,
owing violations.		/ /

## Attachment A PRIORITY POLLUTANT INFORMATION

Please indicate by placing an "X" in the appropriate space by each listed chemical whether it is Suspected to be Absent, Known to be Absent, Suspected to be Present, or Known to be Present in your manufacturing or service activity or generated as a byproduct. Some compounds are known by other names. Please refer to the Priority Pollutant Synonym Listing for those compounds which have an asterisk (\*).

No.	CASRN	Chemical Compound	Suspected Absent	Known Absent	Suspected Present •	Known Present
1	7664417	ammonia				
	1332214	asbestos (fibrous)			Salar Salar	
3	57125	cyanide (total)			the water than the	
4	7440360	antimony (total)	and a second contract of the second contract		a, brazilira.	
5	7440382	· arsenic (total)	market and the second of the second of	er a transfer at a tomorrow and a fig	of the state of a market	• :
-6	7440417	beryllium (total)	complete the second	** - **********************************	* 19.00 <b>555</b> 400.0000.000	5 1984 (d. 19
7	7440439	cadmium (total)	ر واجاد در خاند در خاند در داند در در خاند در	مواص المعادة المعادر والمعادر والمعادر المعادر المعادر المعادر المعادر المعادر المعادر المعادر المعادر المعادر	े गांध्यक्तिक द्वार्थ कर के उन्हें १९४४	。
-8	7440473	-chromium (total)	the state of the same of the s	e e e e e e e e e e e e e e e e e e e	delin energysteethis.	1.054
9	7440508	copper (total)	Militar Marie Congress of Marie and Military of Marie Congress of the Congress	ten en en oar oar	ે જાઈને, જ્વાની	· · · · · ·
10	7439921	lead (total)	المراجع المراج	en menter i ja lang ay	maent la tett va li	t Sew 38
-11	7439976	mercury (total)			16. 都成熟。在大概的人。例如4.	Tall the Pr
12	7440020	nickel (total)	Produce source and security			* * * * * * * * * * * * * * * * * * *
-13	7782492	sclenium (total)	mptos s y	- C	e empere e e	
14	7440224	silver (total)	and the same of th	a company of the control of		
15	7440280	thallium (total)	ment on a constant of the second			
16	7440666	· zinc (total)	en e	ي د تاسماند		
: 17	83329	acenaphthene	And the second of the second o	a the said way is	***	
18	208968	acenaphthylene	the property of the state of th	- A charage of the control of the co	Company of the second	
19	107028	acrolein	and the contract of the contra	والمراجع المتموين والمستداد المتحد	1 and	
20	107131	gacrylonitrile en		and the state of t		
21	309002	aldrin · · · · · · · · · · · · · · · · · · ·			nagrafier in nicely (Sec.	
- 22	120127	anthracene	A STATE OF THE STA	t st. t. t. m. mast the st. sec.	tari sa wasan ka	,
23	71432	benzene na mana amin' anima an	ر سود شور د و دو د دو د دو د د دو د د د د د د د	والمور والمال والمرق المالية	reduced the rest of the Section	Page,
24	92875	benzidine	the section of the se	to the Milliage policy on the control of the contro	Contraction of the second of the second	
25	56553	benzo(a)anthracene*	the control of the co	aller the set and appeared	in the second of	
26	50328	benzo(a)pyrene*	minimum en	t to the same of the same	grand grand to	
27	205992	benzo(b)fluoranthene	e indications of a constitute stranger to a	e descriptor so and a suggest of a single contract	and the state of t	* 1 3. * * * * * * * * * * * * * * * * * * *
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29	207089	benzo(k)fluoranthene*	Security of the security of th	Management according to the large property and pro-	اللها المن يكاني المنطقة المنط منطق المنطقة ا	75 31
30	319846	a-BHC(alpha)	والمهاد المالية المالية المالية المالية المالية المالية المالية	MED Some to be discussed in referring sproggarage	The second of th	St.
31	319857	b-BHC(beta)	ين ريس حصد د ده	Let be dig the second	r and an analysis of the	
32	319868	d-BHC(delta)	Commence of the Commence of th	an the state of th	n comment of the comment	
33	58899	g-BHC*(gamma)		· · · · · · · · · · · · · · · · · · ·	to the North County of the Cou	
34	111444	bis(2-chloroethyl)ether*		Ze Server.		
35	111911	bis(2-chloroethoxy)methane*	ين و ها الموهدية والراب منح ال الموجود والمالة الوقد والا والمحاصدات	43 - 100° WARE	- C. 1	
36	108601	bis(2-chloroisopropyl)ether*	e e e e e e e e e e e e e e e e e e e	<u> </u>		
37	<del></del>	bis(chloromethyl)ether*	To Made and the transition of the state of t	At an article of the second of	1. 1. 25 (A) 1.	

## Attachment A (Continued)

Item No.	CASRN	Chemical Compound	Suspected Absent	Known Absent	Suspected Present	Known Present
79	s survey	1,6-dinitro-2-methylphenol*				•
80	51285	2,4-dinitrophenol	+			
81	121142	2.4-dinitrotoluene				
82	606202	2,6-dinitrotoluene			1.	
83	122667	1.2-diphehythydrazine*			-	
84	959988	endosulfan I*	. •			•
85	33213659	endosulfan II°	and the second		•	
86	1031078	endosojian sulfate	e e se se se se			•
87	72208	rendrin				•
88	7421934 ·	endrin aldehyde	A	•	•	
89	100414	ethylbenzene				••
90	206440	fluoranthene		•	Cass -	·
91	86737	fluorene*				
92	76448	heptachlor				
93	1024573	heptachlor epoxide			·	
94	118741	hexachlorobenzene*				
95	87683	hexachlorobutadiene				·
96	77474	hexachlorocyclopentadiene*				
97	67721	hexachloroethane*				
98	193395	indeno (1.2.3-cd)pyrene*				
99	78591	isophorone*				
100	74873	methylene chloride*	•		·	
101	91203	naphthalene	•			
102	98953	nitrobenzene	•			
103	88755	2-nitrophenol*	. •			
104	100027	4-nitrophenol*				
105	62759	n-nitrosodimethylamine*	•			
106	621647	n-nitrosodipropylamine*				
107	86306	n-nitrosodiphenylamine*				
108	12674112	PCB-1016*				
109	11104282	PCB-1221*				
110	11141165	PCB-1232*				
111	53469219	PCB-1242°				
112	12672296	PCB-1248*				
113	11097691	PCB-1254*				
114	11096825	PCB-1260*				
	87865	pentachiorophenol	:			
	85018	phenanthrene				
117		phenol				······································
	129000	pyrene				
119	<del></del>	2.3.7.8-tetrachlorodibenzo-p-dioxin*	:			
		The state of the s		<del></del>		<u> </u>

Form 4-2 8/90



# ENVIRONMENTAL SERVICES



1120 S.W. Fifth Ave., Room 400, Portland, Oregon 97204-1972 (503) 823-7740, FAX (503) 823-6995

April 6, 1994

Certification # P 369 202 439

MR 12 1901

Amos Kamerer, Plant Manager KOPPERS 7540 NW St. Helens Rd. Portland, OR 97210

Subject: Environmental Surveys/Permit Application

Dear Mr. Kamerer:

I am forwarding copies of Environmental Surveys and a Permit Application to be filled out in order to comply with the United States Environmental Protection Agency's (USEPA) legally mandated Industrial Pretreatment Program. The objective of the program is to protect and maintain the quality of our water supplies, rivers and groundwater. You are being asked to contribute to this effort by describing some operating characteristics and chemicals used in your operations.

Enclosed is Environmental Survey form parts A and B. Form A identifies if there is a non-domestic discharge from your facility. Form B is required for characterizing the sources of non-domestic discharge from your facility, if any. Also enclosed is a Permit Application which is needed to begin the permitting process. KOPPERS is identified as a Categorical Industry by EPA's Code of Federal Regulations and therefore must be monitored under a permit. Because your company does not discharge to the City sewer system, KOPPERS will receive a Non-Discharging Permit.

We request the surveys and permit application be returned by July 8, 1994. A payment in the amount of \$75.00 is required to cover the cost of issuing the permit. Please include a check payable to the City of Portland with your submission. Send all correspondence and completed forms to:

Christina K. Anderson, Permit Manager
Bureau of Environmental Services
1120 S.W. 5th Avenue, Room 400
Portland, OR 97204-1972

Linda Scheffler
503-823-7746
Drause Horms etc

For your information enclosed is Chapter 17.34 of the City code, Industrial Wastewater Discharges, a copy of the Bureau of Environmental Services' Administrative Rules adopted under this chapter, and an Informational Handout concerning the Resource Conservation and Recovery Act (RCRA).

Sincerely yours,

Christina K. Anderson

Permit Manager

CITY OF PORTLAND

ENVIRONMENTAL SERVICES

1120 S.W. 5th Ave., Room 400, Portland, OR 97204-1972

Christina K. Anderson Permit Manager/Inspector Phone: (503) 823-7588 Fax: (503) 823-5228

Printed on Recycled Paper

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An Equal Opportunity Employer

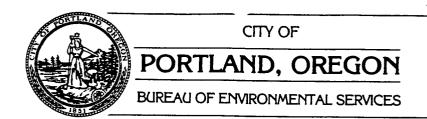
Printed on Recycled Paper



## MUNICIPAL PRETREATMENT PROGRAM



SOURCE CONTROL DIVISION
BUREAU OF ENVIRONMENTAL SERVICES
CITY OF PORTLAND



Earl Blumenauer, Commissioner Mary T. Nolan, Director 1120 S.W. 5th, Rm. 400 Portland, Oregon 97204-1972 (503) 796-7740 FAX: (503) 796-6995

#### INDUSTRIAL WASTEWATER DISCHARGE

#### PERMIT APPLICATION

#### General Instructions

This form serves as a basis for Industrial Wastewater Discharge Permit Issuance. The City will be verifying data contained in the returned form through phone calls and site visits. Please take the time to fill out the form thoroughly and adequately. Enclosed are copies of the environmental survey submitted for your reference. All questions shold be answered. (Process wastewater also includes such items as spent solvents and chemicals dumped down floor drains and sinks.)

Section I Water/Wastewater Data: completed by all users discharging or preparing to discharge process

wastewater.

Section II Business/Facility Description: completed by all users discharging or proposing to discharge process

wastewater.

Section III Permit Application Monitoring Form: to be completed by all industrial users. The Permit Application

Monitoring Form satisfies Baseline Monitoring Requirements for categorical industrual users.

Attachment A Process schematic flow form

Attachment B Building layout form

Sections II and III contain specific instructions and examples to help you answer the questions. The instructions are located on the backside of the pages.

#### New Facilities Proposing to Discharge Wastewater:

Please supply as much information as possible, providing the best estimates where appropriate.

#### Categorical Users:

EPA has published specific federal standards called "categorical pretreatment standards." Industrial facilities covered by these standards are commonly termed "categorical users."

#### Compliance with Pretreatment Standards:

Industrial and commercial facilities that have or will have a process wastewater discharge are required to comply with federal standards and local standards (generally prohibitive and specific limits such as heavy metals and cyanide), whichever apply or are more stringent. In most cases, the City may not know which standards apply until it reviews the general information that you provide.

#### General Information

#### Note to Signing Official

Information must be typewritten or clearly printed. Attach additional sheets with section and item number indicated, if needed to provide complete information. Signing official must have authorization to provide such information on behalf of the company, corporation, or partnership. Please complete a form for each facility that discharges to the City sanitary sewer system. Additional copies can be obtained from the City. The address and phone number are provided below.

Please forward the completed form to the address shown below. If you have further questions, call the City at (796-7180).

Source Control Management City of Portland Bureau of Environmental Services 1120 SW 5th Ave Portland, OR 97204

- 1. Enter the name or title of your business.
- 3. Enter facility address where discharge occurs, if different than mailing address.
- 4. Give the name of the person who is thoroughly familiar with the facts reported on this form and who can be contacted by the City staff.

Note:
1. The Qualified Certification pertains to the actual preparer of the report if different from the authorized representative.
2. The Authorized Representative may be either a corporate official, a partner, a fiduciary, or other duly authorized representative if this person is responsible for the overall operation of the facility from which the discharge originates.

#### Section I-Water/Wastewater Data

#### PROVIDE CALCULATIONS TO SUPPORT ALL FIGURES IN TABLE 1.

1. Water Use and Distribution—Provide the daily average flows of water received and wastewater discharged in gallons per day for the last 12 months by dividing the total flows by the number of days that a discharge of water occurred (or operating day). For the water that is received from other than Water District services or discharged to other than community sanitary sewers, enter the location in the column headed "Source" or "Discharge To." Other source locations can include wells and rivers. Other discharge locations can include storm sewers, dry wells and receiving streams. Hourly and daily water supply meter readings may be used, provided the filling and discharge of storage tanks, process vats, etc., are taken into consideration.

For estimating sanitary flow use, 35 gallons for each employee.

Categorical users: Complete item 10 for providing flows for each of the regulated processes (process lines).

- A batch discharge is one which results from the draining of storage tanks or process tanks: intermittent boiler blowdown, etc.
- 4. Discharge Period:
  - (a) Enter the hours of the day for each day, during which waste from this Business Activity will be discharged to the sewer: e.g., from 6 a.m. to 5 p.m.
  - (b) Enter the time and duration of discharge other than continuous flows (15 minutes every hour).
- 5. Variation in Operation:

Indicate whether the business activity is continuous throughout the year or if it is seasonal. If the activity is seasonal, circle the months of the year during which discharge occurs. Make any comments you feel are required to describe the variation in operation of your business activity.

- 6. Go to Attachment A for form, instructions, and examples.
- 7. Go to Attachment B for form, instructions, and examples.

## Section I-Water/Wastewater Data

No Instructions for items 8.-13.

PC0X705.001.51

#### Section II-Business/Facility Description

- 1. Business Activity—Describe the principal activity on the premises. For the purpose of completing this Part, an activity is a major class of manufacturing. Enter the Standard Industrial Classification (SIC) Code Number, as found in the 1972 Edition of Standard Industrial Classification Manual prepared by the Executive Office of the President, Office of Management and Budget, which is available from the Government Printing Office at Washington, D.C., or at San Francisco, California. DO NOT USE PREVIOUS EDITIONS OF THE MANUAL. Copies are also available for examination at most public libraries. If you do not know, leave SIC No. blank.
  - (a) & (b) If not already provided in Attachment C, list all primary raw materials and chemicals used in the facility's operations. Avoid use of trade names of chemicals. If trade names are used, provide information regarding the active ingredients.
  - (c) Product-List the types of products, giving the common or brand name and the proper or scientific name.

    Enter from your records the average and maximum amounts produced daily for the activity for the previous calendar year, and the estimated daily production for this calendar year. Attach additional pages if necessary.
  - (d) Description—Describe the wastewater generating process occurring on the premises, including any seasonal variation in wastewater discharge volumes, plant operations, raw materials, and chemicals used in process and/or production.
  - (e) Substances discharged—Give common (brand names) and technical names (chemical, scientific or proper names) of each raw material and product that may be discharged to the sewer. Briefly describe the physical, (e.g., color) and chemical, (e.g., reacts with water) properties of each substance.

#### Instructions for Completing Section III

The remaining section will facilitate the collection of the necessary quantitative wastewater information to assist the City in establishing applicable pretreatment limits and requirements. NONCATEGORICAL FACILITIES are required to complete Section III, PART A ONLY. CATEGORICAL FACILITIES covered by federal categorical pretreatment standards ("categorical users") are required to complete Section III PARTS A and B.

Section III-Permit Application Monitoring Report: PARTS A and B

Section III PART A is to be completed by all facilities.

Section III PART B is additionally required for categorical industries.

#### Note:

New Facilities (categorical and noncategorical): new businesses moving into existing facilities and new business proposing to construct a new building. No discharge of process wastewaters has occurred. However, supply as much information as possible providing best estimates where appropriate.

Contact the City if there are any questions on what limits apply to the discharge, what pollutants to sample, sampling requirements, and where to take samples. The general instructions on the back of the form provide general information on sampling.

#### Section III-Permit Application Monitoring

## PART A: NON-CATEGORICAL INDUSTRIES

To be completed by noncategorical users. Attach additional sheets if needed. Contact the City before sampling, if not sure of pretreatment standards, sampling protocols.

- 1(a) Pollutants-List across the top specific pollutants (use abbreviations) regulated in the City code. Example: Copper Cu.
  - Daily Maximum and Monthly Average -

Refer to the City code for pretreatment standards for the specific pollutant. Most cities have <u>daily maximum pretreatment standards</u> (limits), and not monthly averages.

Example: Daily maximum (Copper - Cu = 2 mg/L)

Monthly average (Zinc - Zn = 4 mg/L)

You would enter 2 under Cu and 4 under Zn.

- Reported maximum: Report the highest maximum concentration for the samples collected and analyzed.
- Reported average: If more than one sample was taken, average all the individual results and report the average in the spaces provided for each of the appropriate pollutants listed.
- Indicate type of samples (i.e., grab, flow proportioned composite, etc.), analytical methods, and number of samples taken. Indicate whether samples were taken of combined wastestreams. The industrial user must ascertain whether it can meet the pollutant standards. The type of discharge, i.e., bath, continuous, routine historical information (e.g., existing data pollutant discharge) et.c., is a factor that should guide the industrial user regarding the number of samples to be taken to ascertain compliance. Where feasible, samples should be flow-proportional composites. Additionally, the time, date of sampling, and methods of analysis must be reported. Analytical methods must be performed in accordance with 40 CFR Part 136 and any amendments thereto. It is important that the samples be representative and taken during full production.

Each daily composite shall be analyzed separately.

2(a) New facilities have not begun to operate and/or discharge.

## PART A: NON-CATEGORICAL INDUSTRIES

- 1(b) Compare the sample results against local pretreatment standards provided by the City (contained in City code).
  - Describe any additional O&M pretreatment and provide compliance schedule. Specify the major events needed to achieve compliance, as well as the dates for completion of each event (i.e., hiring an engineer, completing preliminary plans, completing final plans, executing contracts, commencing construction, completing construction, etc.). The shortest possible schedule should be provided.
- 2. The certification pertains to the actual preparer of the report if different from the authorized representative.

The authorized representative may be either a corporate official, a partner, a fiduciary, or other duly authorized representative if this person is responsible for the overall operation of the facility from which the discharge originates.

#### Section III-Permit Application Monitoring

#### PART B: CATEGORICAL USERS

- 1. List each regulated process, the production rate (i.e., 10,000 lbs. of (product name/unit time-week, month, year), the category, and subpart of the applicable Categorical Pretreatment Standard as well as the SIC code for each process.
- 2. Each industrial user will sample, analyze, and report on all pollutants regulated specific to each process (refer to appropriate subcategory in regulations for regulated pollutants). Where mass limits exist, the facility will have to report results in mass limits (concentration x regulated process flow in million gallons/day x 8.34). The BAT pretreatment standards are processed-related. That is, a facility must comply with the standard at the end-of-the regulated process. However, EPA recognizes that many facilities combine their wastewater process lines, cooling H<sub>2</sub>O, and sanitary discharge prior to treatment and discharge to municipal sewers. Hence, a facility can sample at a combined point, but will need to adjust the categorical limit it must meet by (i.e., calculate adjusted limits) employing the Combined Wastestream Formula that is contained in Section 403.6(e) of the General Pretreatment Regulations (Federal Register January 28, 19810. If this is the case with your facility, you must employ the formula and provide additional data for calculations. Contact the City for more guidance. Insert in the table the regulated pollutant (use abbreviations), the published average and maximum numerical limit for the particular pollutant found in the regulation, or adjusted limits as calculated by use of the combined wastestream formula, and the results of the sampling (average and maximum values).

Indicate type of samples (i.e., grab, flow proportioned composite, etc.), analytical method, and number of samples taken. Indicate whether samples were taken of combined wastestreams. The industrial user must ascertain whether it can meet the 30-day average, calculated average, daily maximum, or calculated maximum limit. The type of discharge, i.e., bath, continuous, routine historical information (e.g., existing data pollutant discharge) etc., is a factor that should guide the industrial user regarding the number of samples to be taken to ascertain compliance. Where feasible, samples should be flow-proportional composites. Additionally, the time, date of sampling, and 40 CFR Part 136 and any amendments thereto. It is important that the samples be representative and taken during full production. Minimum sampling requirements are:

Process flows less than 250,000 gpd-3 samples within 2-week period Process flows greater than 250,000 gpd-6 samples within 2-week period

#### Section III-Permit Application Monitoring

#### PART B: CATEGORICAL USERS

- 4. Facilities covered by a TTO pretreatment standard must initially sample for TTO and determine compliance. Analyses only have to be performed on toxic organics present. Contact City for list of toxics applicable to your operations.
- 4(a) Facilities that utilized none of the toxic organics can provide a certification statement in lieu of having to monitor for toxics.
- 4(d) Facilities whose sampling results indicate compliance with TTO standards can develop a solvent management plan in lieu of having to periodically sample for toxic organics. Contact the City of guidance.
- 5(a) In order to determine compliance with published or calculated mass-based categorical standards, a facility will need to compare its allowable mass limit (e.g., Pb = .00261 lbs x 200 lbs of steel produced = 0.533 lb) against the actual mass 1,000 lbs

loading derived from sampling (i.e., conc. x regulated process flows x 8.34 = lbs discharged). If categorical standards are published in concentration, then a facility only needs to compare the concentration of its effluent against the regulated standards for the particular pollutant.

- 5(c) Describe any additional O&M or pretreatment and attach a compliance schedule. Specify the major events needed to achieve compliance, as well as the dates for completion of each event (i.e., hiring an engineer, completing preliminary plans, completing final plans, executing contracts, commencing construction, completing construction, etc.). The shortest possible schedule should be provided.
- 6. The certification pertains to the actual preparer of the report if different from the authorized.

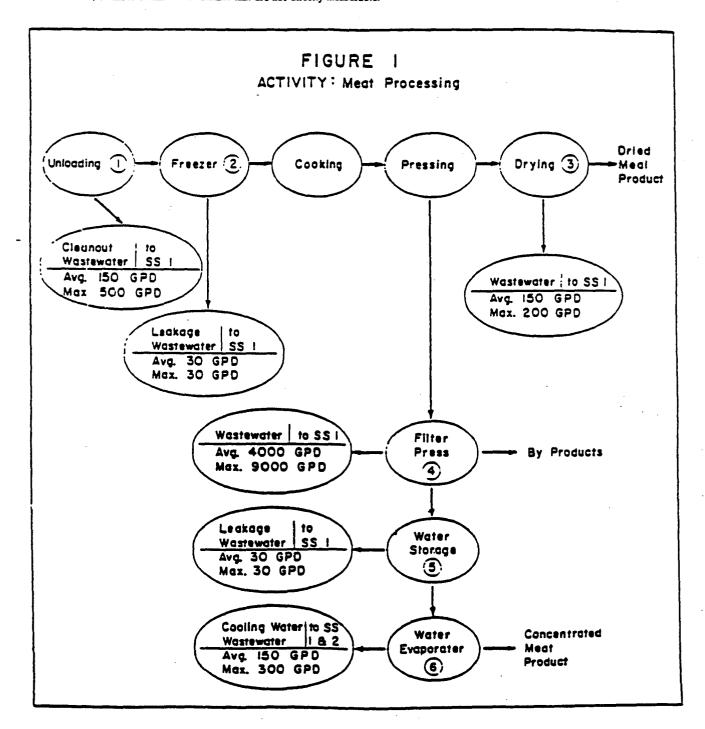
The authorized representative may be either a corporate official, a partner, a fiduciary, or other duly authorized representative if this person is responsible for the overall operation of the facility from which the discharge originates.

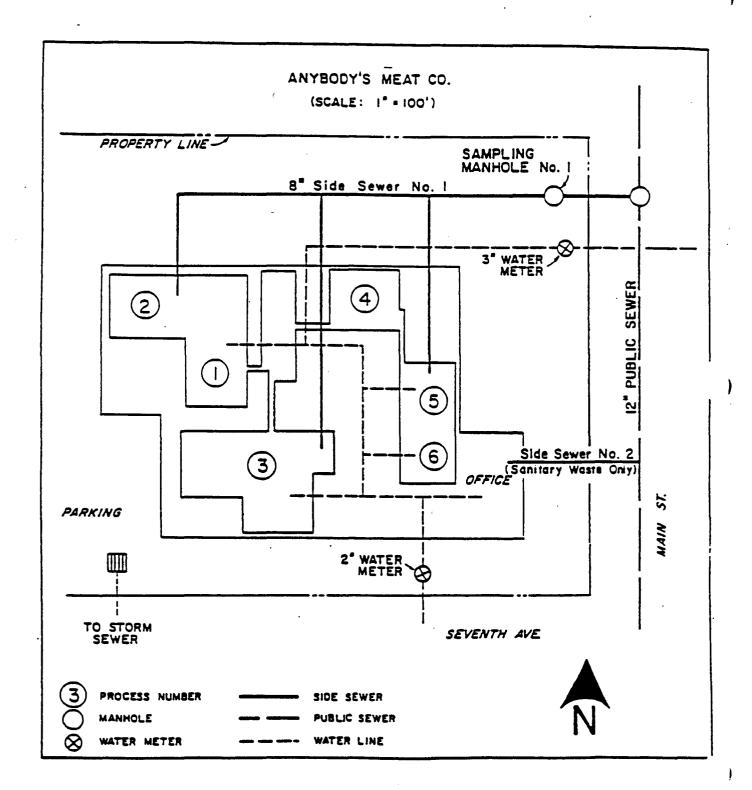
#### PROCESS FLOW SCHEMATIC

Separate drawing should be completed for each major business activity.

A line drawing (schematic flow diagram) of each major business activity is to be completed in the space below or drawn on an attached sheet of paper (all sheets should be letter size). Number each process which generates wastewater using the same numbering as in the building layout or plant site plan shown in the building layout schematic. An example of drawing required is shown below in Figure I.

To determine your average daily volume and maximum daily volume of wastewater flow, you may have to read water meters, sewer meters, or make estimates of volumes that are not directly measurable.





#### APPLICATION

RETURN APPLICATION TO:

811 S.W. Slotch Avenue Forniand, CR 97204 (303) 229-3309

#### FOR RENEWAL OF

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPDES-R)

STATE OF OREGON

CED FEE CHILL
Appl. No.: 47430
Received:
170 TT4 T- 00

A. REFERENCE INFORMATION								
Koppers Industr	ies, Inc.		Present Pe	ermit No.:	100419			
Officia	L Name of Applicant (O	wner)	j					
Novebreed Towns	no1	•	Date Expir	res:	11/30/	92		
Northwest Termi	<del></del>	·	-					
7540 Northwest	Faciliy Name Saint Helen's Ro	ad :	Ent	er Site Locat	ion by L	atitude a	nd Longitu	de:
<del></del>	Address	<del> </del>	7	LATITUDE			LONGITUDE	
Portland	OR	97229	- 1. Deg.	<del></del>	. Sec.	1. Deg.	2. Hin.	3. Sec.
City	State	Zip	1. Deg.	2. 1111.	. 360.	1. 0eg.	Z. AIII.	3. sec.
			45	34	38	122	45	32
								<del></del>
John A. Oxford	,							,
	Responsible Official	<del></del>	41.54	ernate Respons	ible Off	ficial or	Chiat Ones	
	Responsible Official		)	ermere veabour	TDIE OTT		CTITET ODE	
Plant Manager		<del> </del>	-			<del></del>		
7540 N.W. St. H	elen's Road (50	3) 286-3681			Tic.	Le		i e
Portland, OR 97	229	73) 280-3081						
Address or I		Phone	-	Address or Loc	ation	<del></del> .	Ph	one
<del>}</del>	<del></del>		_ <u></u>	·			<del> </del>	
Des	cription of activities	requiring a permit f	rom the Depart	tment: (Check	all tha	it apply.)		*
Construct (neta)	ll or modify waste coll	ection treatment of	r disposal fac	11 fries				
	-	*	·	LLLLUJ.				•
Operate vaste col	llection, treatment, or	disposal facilities.	•					•
Discharge treated	d wastewaters into the	vaters of						•
X (Disch	arge stormwater	to Willamette I	River					
(OCSEP)							· · · · · · · · · · · · · · · · · · ·	
3. GENERAL QUESTIONS	·							
1. Have the treatment of	or disposal methods som	loved as indicated i	In previous an	n) icarione he	en alte	d (n -n:	· var «Inc	a the last
	mitted? Yes X No		m previous ap	pricacions, o	cen alte.		, 42, 32iii.	e the rast
		, ,		•				1
}	•	•		•				
	•		•					
<u> </u>					•			
2. Eas the quantity or since the last appli	quality of wastes discipation was submitted?				een sign	nificantly	changed	in any way
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i		ů.						
			· · · · · · · · · · · · · · · · · · ·	————————				
C. SPECIAL QUESTIONS AND		<i>:</i>		,				
	REQUESTED INFORMATION	: 		·				
1. If any changes in op	REQUESTED INFORMATION	city or quality are a	enticipated in	the near futi	re, ple	ase attach	ı an explai	nation or
If any changes in or proposal.		acity or quality are	enticipated in	the near futu	re, ples	ase attach	an explai	nation or
proposal.	perations or waste quan	•			-			
proposal.		•			-			
proposal.	perations or waste quan	•			-			
proposal.  2. Please attach a brie	perations or waste quan	es your progress in a	peering the re-	quirements and	i limita	tions of y	our prese	nt permit.
proposal.  2. Please attach a brie	perations or waste quan	es your progress in a	peering the re-	quirements and	i limita	tions of y	our prese	nt permit.
proposal.  2. Please attach a brie	perations or waste quan	es your progress in a	peering the re-	quirements and	i limita	tions of y	our prese	nt permit.
proposal.  2. Please attach a brie  LHEREBY GERTIFY THAT	perations or waste quan	es your progress in a	ON IS TRUE AND	quirements and	i limita	tions of y	our prese	nt permit.
proposal.  2. Please attach a brie  LHEREBY CERTIFY THAT	perations or waste quanter of report which indicate the information contains the indicate the in	NED IN THIS APPLICATI	ON IS TRUE AND	quirements and	i limita	tions of y	our prese	nt permit.  D BELIEF.

#### INSTRUCTION - PERMIT RENEWAL APPLICATION

- A. Reference Information: Complete the required information in detail.

  If there has been a name change, address change or change in personnel since the last application, please make a special note to that effect.
- B. General Questions: If more space is needed than provided on the application form, please attached as many additional pages as necessary in order to supply whatever explanation or diagrams are needed to update the treatment and disposal methods used and the characteristics of the waste discharged or otherwise disposed.
  - C. Special Questions and Requested Information:
    - Please elaborate on any proposed expansions, cutbacks, improvements or changes of any kind which will or may affect the quantity or quality of pollutants discharged.
    - 2. Each condition of your present permit should be reviewed and an assessment made as to the success you have had in meeting the requirements and limitations.

#### Signature on Application

The person who signs the application form will often be the applicant himself; when another person signs on behalf of the applicant, his title or relationship to the applicant should be shown in the space provided. In all cases, the persons signing the form should be authorized to do so by the applicant. An application submitted by a corporation must be signed by a principal executive officer of at least the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge(s) described in the form originate. In the case of a partnership or a sole proprietorship, the application must be signed by a general partner or the proprietor, respectively. In the case of a municipal, State, Federal or other public facility, the application must be signed by either a principal executive officer, ranking elected official or other duly authorized employee.

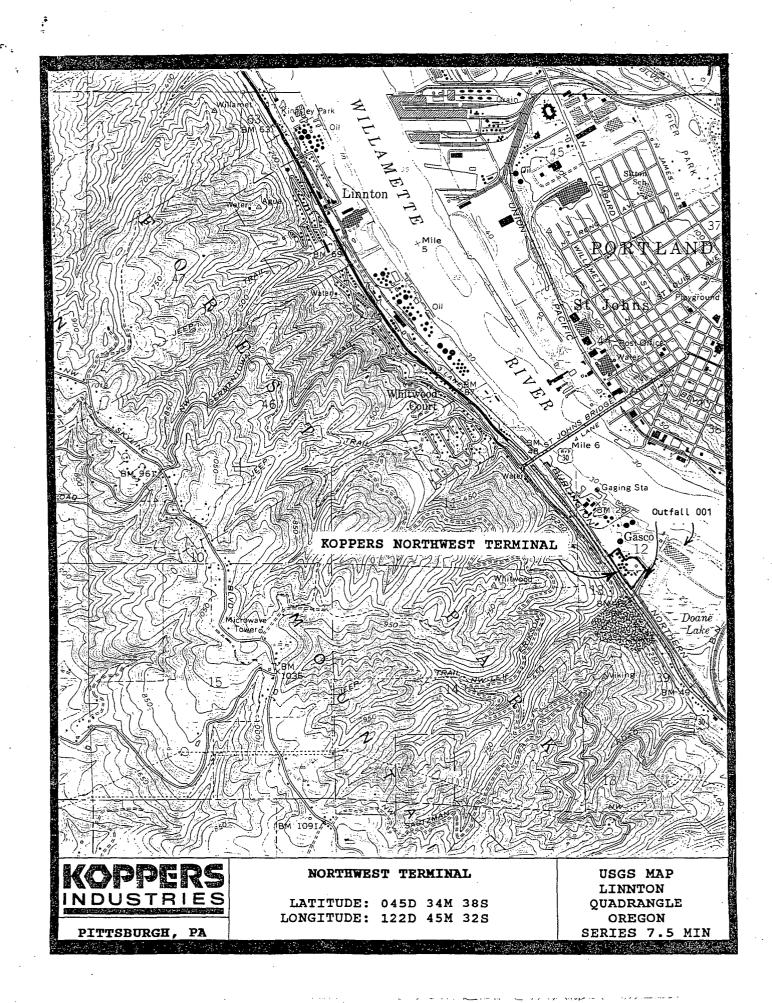
Other Instructions

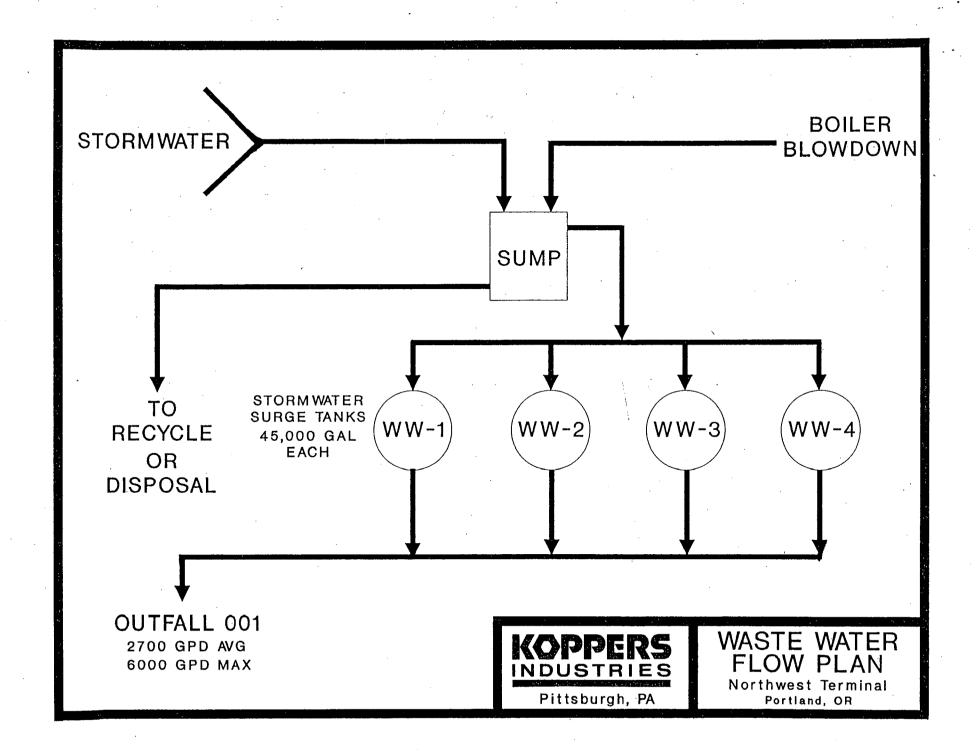
Submit this application as soon as possible. It should be submitted at <a href="Least 130">least 130</a> days prior to the expiration of your present permit.

All NPDES Permit Applications are to be submitted to:

Department of Environmental quality
Business Office
811 S.W. Sixth Avenue
Portland, OR 97204

IW\WC7604





ORD027734359

FORM 2 G **NPDES** 

#### U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS Consolidated Permits Program

A. OUTFALL	B. (	LATITUDE	=	c. ı	ONGITUE	Œ	D. RECEIVING WATER (name)
(list)	1. DEG.	Z. MIN.	1. SEC.	1. DEG.	2. MIN.	3. SEC.	D. RECEIVING WATER (nume)
001	4.5	34	38	122	45	32	Willamette River
		<del>                                     </del>		<del></del>	<del> </del>		
		<del> </del>			<del> </del>		
					<u> </u>		

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUT-	2. OPERATION(S) CONTRIBU	TING FLOW	3. TREATMENT	
ALLNO	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM
	Stormwater	13,000 gal/mo.	Neutralization	2K
001	Boiler Blowdown		Discharge to surface water	4A
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FEIGUA	L USE ONLY (effluent guidelines sub-categories		suntil.	<u> </u>

<u> </u>		ff, leaks, or spills, are any o lete the following table)	-				o Section III			
*	1 .	and the second s		3. FREG	UENCY			4. FLOW		
1. OUTFALL		2. OPERATION(s)		a. DAYS	b. MONTHS	a. FLOV (in n		b. TOTAL (specify u		c DUR-
NUMBER (list)	*	CONTRIBUTING FLO	W WALLE LEVEL	PER WEEK (specify average)	PER YEAR (specify average)	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2, MAXIMUM DAILY	(in days)
001	Stor	mwater		0.5	9	2.7	6.0	82.5/mc	180/mo	244
							40			
		•					· · · · · · · · · · · · · · · · · · ·			
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								·		
III. PRODUCTIO	ON .				WO FASSE					
A. Does an efflu	ent guide	line limitation promulgate ete Ilem III-B)	d by EPA unde	r Section 304	of the Clean	Water Act app	ly to your fa o Section IV)	cility?		on an officiency in the
		the applicable effluent guid ete Item III-C)		in terms of p	production (o		re of operatio o Section IV)	-		
		" to Item III-B, list the quar e effluent guideline, and i				ment of your l	evel of produ	ction, express	ed in the term	s and units
		1.	AVERAGE DA	ILY PRODUC	TION	<del></del>			2. AFFE OUTF	
a, QUANTITY PE	R DAY	b. UNITS OF MEASURE		C. OPE	RATION, PRODU (SPEC	ict, material, ify)	ETC.		(list outfall	
<del>-</del>					· <del>- · · · · · · · · · · · · · · · · · ·</del>				,	
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IV. IMPROVEME	ENTS >					9W 17 99.59		(La Stationical Control		
water treatm	ent equip nited to,	by any Federal, State or ment or practices or any permit conditions, adminis	other environm	ental progran cement order	ns which may s, enforcemen	affect the dis it compliance	scharges desc	ribed in this a	oplication? Th	is includes,
. IDENTIFICATI		ONDITION, 2. AFFEC	TED OUTFAL	<del></del>	· · · · · · · · · · · · · · · · · · ·	IEF DESCRIP	<del></del>		4. FIN	AL COME
AGREE	MENT, E	TC. B. NO. b. so	URCE OF DISCHA	ARGE ACTOR	J. BK	ier beschir	TION OF FR	OJEC I	8. RE- QUIREC	D PRO-
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EPA Form 3510-2C (Rev. 2-85)

ORD027734359 Approval expires 7-31-88 **CONTINUED FROM PAGE 2** V. INTAKE AND EFFLUENT CHARACTERISTICS A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9. D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your 1. POLLUTANT 2. SOURCE 1. POLLUTANT 2. SOURCE Quinoline Coal Tar Constituent VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct? YES (list-all such pollutants below) NO (go to Item VI-B) Total Phenols Benzene Toluene Pheno1s Acenaphthene Acenaphtylene Chrysene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene

Do you have any knowledge or reason to belie receiving water in relation to your discharge w	ithin the last 3 years?	·	your discharges or on a	J4275
	st(s) and describe their purposes below)	X NO (go to Secti	on VIII)	
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•		•		
	4	,	•	
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	•			
ere any of the analyses reported in Item V p	erformed by a contract laboratory or consulting firm iddress, and telephone number of, and pollutants th such laboratory or firm below)	? □ NO (go to Section	on IX)	
Vere any of the analyses reported in Item V p	据翻译 医二种性 医电路管检验器 医二十二氏 医二氏		On IX)  B. POLLUTANTS ANAL (list)	LYZ
Vere any of the analyses reported in Item V portion of the name, of analyzed by, each A. NAME	ddress, and telephone number of, and pollutants ch such laboratory or firm below)  B. ADDRESS  12423 N.E. Whitaker Way	NO (go to Section	Form 2C	LYZ
lere any of the analyses reported in Item V portion of the name, or analyzed by, each A. NAME	iddress, and telephone number of, and pollutants ch such laboratory or firm below)  B. ADDRESS	C. TELEPHONE (area code & no.)	Form 2C Section V	LYZI
Vere any of the analyses reported in Item V portion of the name, or analyzed by, each A. NAME	ddress, and telephone number of, and pollutants ch such laboratory or firm below)  B. ADDRESS  12423 N.E. Whitaker Way	C. TELEPHONE (area code & no.)	Form 2C	LYZI
ere any of the analyses reported in Item V portion of the name, or analyzed by, each A. NAME	ddress, and telephone number of, and pollutants ch such laboratory or firm below)  B. ADDRESS  12423 N.E. Whitaker Way	C. TELEPHONE (area code & no.)	Form 2C Section V Parts A,B,C	LYZI
ere any of the analyses reported in Item V portion of the name, or analyzed by, each A. NAME	ddress, and telephone number of, and pollutants ch such laboratory or firm below)  B. ADDRESS  12423 N.E. Whitaker Way	C. TELEPHONE (area code & no.)	Form 2C Section V Parts A,B,C	LYZI
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YES (list the name, of analyzed by, ea	ddress, and telephone number of, and pollutants ch such laboratory or firm below)  B. ADDRESS  12423 N.E. Whitaker Way	C. TELEPHONE (area code & no.)	Form 2C Section V Parts A,B,C	
Vere any of the analyses reported in Item V portion of the name, analyzed by, ea  A. NAME  Coffey Laboratories, Inc.	ddress, and telephone number of, and pollutants ch such laboratory or firm below)  B. ADDRESS  12423 N.E. Whitaker Way	C. TELEPHONE (area code & no.)	Form 2C Section V Parts A,B,C	
Vere any of the analyses reported in Item V portion of the name, analyzed by, early analy	B. ADDRESS  12423 N.E. Whitaker Way Portland, OR 97230	C. TELEPHONE (area code & no.)  (503) 254-1794	Form 2C Section V Parts A,B,C Full Scan	
CERTIFICATION  ertify under penalty of law that this document sure that qualified personnel properly gather pose persons directly responsible for gathering	ddress, and telephone number of, and pollutants ch such laboratory or firm below)  B. ADDRESS  12423 N.E. Whitaker Way	C. TELEPHONE (area code & no.)  (503) 254–1794  ction or supervision in according inquiry of the person or perbest of my knowledge and be	Form 2C Section V Parts A,B,C Full Scan	ignec sten
CERTIFICATION  CERTIF	B. ADDRESS  12423 N.E. Whitaker Way Portland, OR 97230	C. TELEPHONE (area code & no.)  (503) 254–1794  ction or supervision in according inquiry of the person or pebest of my knowledge and be ssibility of fine and imprison	Form 2C Section V Parts A,B,C Full Scan	gnec
CERTIFICATION  ertify under penalty of law that this documer sure that qualified personnel properly gather ose persons directly responsible for gathering m aware that there are significant penaltics.	B. ADDRESS  12423 N.E. Whitaker Way Portland, OR 97230	C. TELEPHONE (area code & no.)  (503) 254–1794  ction or supervision in according inquiry of the person or pebest of my knowledge and be ssibility of fine and imprison	Form 2C Section V Parts A,B,C Full Scan  rdance with a system designsons who manage the system for knowing violating (area code & no.)	gned

PAGE 4 OF 4

EPA Form 3510-2C (Rev. 2-85)

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS

EPA I.D. NUMBER (copy from Item 1 of Form 1)

ORD027734359

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO 001

PART A. You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

				. EFFLUENT				3. UNITS (specify if blank)		4, IN	TAKE (option	ıl)
1. POLLUTANT	(if abaltable)				c.LONG TERM	AVRG. VALUE	d. NO. OF		(blank)	a. LONG AVERAGE	TERM	b NO OF
	(1)	(2) MASS		(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a, CONCEN-	b. MASS	(I)	(2) MASS	ANALYSES
a. Blochemical Oxygen Demand (BOD)	28						1	mg/1	1bs			
b. Chemical Oxygan Demand (COD)	50						1	mg/l	lbs			
c. Total Organic Carbon <i>(TOC)</i>	19			·			1	mg/l	1bs			
d. Total Suspended Solids (TSS)	13						1	mg/l	1bs	·	,	
e. Ammonia (as N)	0.3						1	mg/l	1bs			
f. Flow	6000		6000		4000		22	N/A	gal	VALUE		
g. Temperature (winter)	VALUE		VALUE		VALUE 10		3	°C		VALUE		
h. Temperature (summer)	VALUE 26		VALUE 25		VALUE 20		3	°C	•	VALUE.		
i. рН <sup>31</sup>	6.0	7.0	6.0	6.6			23	STANDAR	DUNITS	-	><	

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUT-	2. MA	RK 'X'	34,540			FFLUENT				4. UI	VITS	5. INT	AKE (option	al)
ANT AND CAS NO.	8. BE-	D. BE- LIEVED AB- SENT	a. MAXIMUM I		b. MAXIMUM 3 (if avai	DAY VALUE	c.LONG TERM	AVRG. VALUE	d NO. OF	Ia. CUNCENºI	b. MASS	8. LONG AVERAGE	TERM E VALUE	b. NO. OF
(if available)	SENT	BENT	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	YSES	RATION	D, MASS	CONCENTRATION	(z) MASS	ANAL-
a. Bromide (24959-67-9)		Х	<b>&lt;0.</b> 5	ND					1	mg/1	lbs			
b. Chlorine, Total Residual		Х	<0.5	. ND					1 .	mg/l	1bs			
c. Color,	Х		300	N/A	<u>;</u>				1	Pt-Co	N/A			
d. Fecal Coliform	Х		114	N/A	:				1	Colonies 100 ml	N/A			
e, Fluoride (16984-48-8)	X		0.2	0.01					1	mg/l	<u>lbs</u>			
f. Nitrate— Nitrite (as N)	х		<0.3	ND					1	mg/1	_lbs_			

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PAGE V-1

**CONTINUE ON REVERSE** 

1. POLLUT-	2. MA			المترجد معاردا والأحيد	a seeing agree ' <b>3.</b>				grade the special	5.5°° ← <b>4.</b> UI	VITS TO	*** 5. INT	AKE (optiona	1)
ANT AND CAS NO.	8. BE- LIEVEC PRE- BENT	D. BE-	8. MAXIMUM E	DAILY VALUE	b. MAXIMUM 3	O DAY VALUE	c.LONG TERM	AVRG. VALUE ilable)	d, NO.OF	a, CONCEN- TRATION	b, MASS	A LONG	TERM E VALUE	D. NO. OI
(if available)	PRE- BENT	SENT	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	YSES	TRATION	D, M A 33	CONCENTRATION	" (2) MASS	ANAL- YSES
g, Nitrogen, Total Organic (as N)	х		0.8	0.04	·				1	mg/l	lbs			
h. Oll and Grease	Х		1.7	0.08	1.7	0.08	0.85	0.03	23	mg/l	1bs			
i. Phosphorus (as P), Total (7723-14-0)	х		0.2	0.01				-	1	mg/l	lbs			
J. Radioactivity		100	医皮肤 類似的	Si. atti					(5.4)		. :	propriedly in		
(1) Alpha, Total		х	N/A	N/A					0	N/A	N/A			
(2) Beta, Total		Х	N/A	N/A					0	N/A	N/A			
(3) Radium, Total		Х	N/A	N/A					0	N/A	N/A			
(4) Radium 226, Total		Х	N/A	N/A.					0	N/A	Ν/A			
k. Sulfate (as 804) (14808-79-8)	X		8.8	0.44					1	mg/1	1bs			
l. Sulfide (ds 3)	Х		0.03	0.0015					1	mg/1	1bs			
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)	х		<5.0	ND					1	mg/l	lbs			
n. Surfactants	Х		0.72	0.036					1	mg/l	1bs			
o. Aluminum, Total (7429-90-5)	х		<0.1	ND					1	mg/l	1bs			
p. Barlum, Total (7440-39-3)	х		0.017	<0.001			•••		1	mg/l	1bs			
q. Boron, Total (7440-42-8)	Х		0.1	0.005	,				1	mg/l	1bs			
r. Cobalt, Total (7440-48-4)	х		<0.05	. ND					1	mg/l	1bs			
s. Iron, Total (7439-89-6)	х	•	5.8	0.29			e e e e e e e e e e e e e e e e e e e		1	mg/l	lbs			
t. Magnesium, Total (7439-95-4)	Х		0.9	0.045					1	mg/l	lbs			
u. Molybdenum, Total (7439-98-7)	X		0.05	ND	·				1	mg/l	lbs	<u></u>		
v. Manganese, Total (7439-96-5)	Х		<b>5.</b> 5	0.275			-		1	mg/l	lbs			
w. Tin, Total (7440-31-5)	Х		0.1	. ND					1	mg/l	1bs			
x. Titanium, Total (7440-32-6)	Х		0.05	ND					1	mg/1	1bs			

CONTINUED FROM				<del></del>		·								TAKE (	( <del>)</del>
1. POLLUTANT AND CAS		MARK			•		EFFLUENT	C.LONG TERM	AVRG. VALUE	14 22 25	4. UI	NITS		TAKE (option	b. NO. OF.
NUMBER (if available)	ING RE- OUID	D, BE. LIEVED PHE. SENT	AB. LIEVED	8. MAXIMUM (	(2) MASS	(i) ava	ilable)	c.LONG TERM (if ava (i)	(2) MASS	ANAL- YSES	a. CONCEN- TRATION	b. MASS	8. LONG AVERAG (1) CONCEN- THATION	E VALUE	ANAL.
GC/MS FRACTION					(2) mass	CONCENTHATION	(27 m x 5 5	CONCENTRATION	(2) mass	1323		<del></del>	TRATION	(4,	+
1V. Acrolein (107-02-8)	X			< 200	ND			ı		1	ug/l	lbs			
2V. Acrylonitrile (107-13-1)	Х			< 200	ND					. 1	ug/l	1bs			
3V. Benzene (71-43-2)	Х			< 2	ND					1	ug/l	1bs			
4V. Bis (Chloro- methyl) Ether (542-88-1)	Х			< 0.5	ND					1	ug/l	1bs			
5V. Bromoform (75-25-2)	X			< 1	ND					1	· ug/1	lbs			
6V. Carbon Tetrachlorida (56-23-5)	<u> X</u>			< 0.5	ND					1.	ug/1	1bs			
7V, Chlorobenzene (108-90-7) 8V, Chlorodi-	Х		_	< 0.5	. ND					1	ug/l	lbs			ļ
bromomethane (124-48-1)	X			< 0.5	ND					1	ug/1	lbs			
9V, Chloroethane (75-00-3) 10V, 2-Chloro-	X			< 10	ND					1	ug/1	lbs			
ethylvinyl Ether (110-75-8)	X		<del></del>	< 50	ND					1	ug/1	1bs		· · · · · · · · · · · · · · · · · · ·	
(67-66-3) 12V.*Dichloro-	X			< 0.5	ND	-				1	ug/l	1bs			ļ
bromomethane (75-27-4) 13V. Dichloro-	Х			< 0.5	ND	1				i	ug/1	lbs			
difluoromethane (75-71-8)	Х			< 5	ND					1	ug/1	1bs			
ethane (75-34-3)	Х			< 0.5	ND					1	ug/1	1bs			
ethane (107-06-2)	X			< 1	ND					1	ug/1	1bs	<del> </del>	-	ļ
ethylene (75-35-4)	Х			< 0.5	ND					1	ug/l	lbs			
propane (78-87-5)	Х		<u> </u>	< 1	ND					1	ug/l	1bs			
propylene (542-75-6)	Х			< 0.5	ND .			<u> </u>		1	ug/l	1bs			-
19V. Ethylbenzene (100-41-4) 20V. Methyl	.Х.			< 1	ND					1	ug/l	1bs			
Bromide (74-83-9)	Х			< 10	ND .			-	-	1	ug/l	lbs			
21V. Methyl Chloride (74-87-3)	Х			< 10	ND					1	ug/l	1bs			

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OMB No. 2040-0086
Approval expires 7-31-88

ONTINUED FROM PAGE 3 OF FORM 2-C

ORD027734359

001

PART C:- If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a [secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions], mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for any pollutant you dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

. POLLUTANT	2. 1	MARK.	'x'	:		3. E	FFLUENT			r S. S.	4. UI	NITS	5. IN 7	AKE (opti	onal)
AND CAS NUMBER	ATEST	D BE- LIEVED PRE- SENT	C. BE-	a. MAXIMUM D	AILY VALUE	b. MAXIMUM 30	DAY VALUE	c.LONG TERM	AVRG. VALUE	d NO.OF	B. CONCENT	b. MASS	a, LONG	TERM E VALUE	b. NO. OF
(if available)	ING RE- QUIR- ED	PRE- SENT	AB- SENT	(1) CONCENTRATION	(2) MASS	(I)	(2) MASS	(1)	(2) MASS	ANAL- YSES	TRATION	D. MASS	(I) CONCEN- TRATION	(2) MASS	YSES
IETALS, CYANID	E, ANI	TOT									1.44				
M. Antimony, Fotal (7440-36-0)	Х			<0.1	ND					1	mg/l	lbs			
PM. Arsenic, Total 7440-38-2)	Х			<0.1	ND					1	mg/1	lbs			
3M. Berylllum, Fotal, 7440-41-7)	Х		·	<0.005	ND					1	mg/l	lbs			
IM. Cadmium; Fotal (7440-43-9)	Х			<0.05	ND					1	mg/1	lbs			
iM. Chromium, Fotal (7440-47-3)	Х			<0.05	ND				·	1	mg/l	lbs		·	
6M. Copper, Total 7440-50-8)	Х	·		<0.05	ND					1	mg/l	lbs			
7M. Lead, Total (7439-92-1)	Х	-		<0.1	ND		·			1	mg/l	1bs			
3M, Mercury, Total (7439-97-6)	Х			<0.0005	ND .					1	mg/1	1bs			
3M. Nickel, Total (7440-02-0)	Х			<0.05	ND					1	mg/l	lbs_			
10M. Selenium, Total (7782-49-2)	Х			<0.1	ND					1	mg/l	1bs			
11M. Silver, Total (7440-22-4)	Х			<0.05	ND					11	mg/1	lbs			
12M. Thallium, Total (7440-28-0)	Х			<0.1	ND					1	mg/l	lbs			
13M. Zinc, Total (7440-66-6)	Х			<0.05	ND		·	·		1	mg/1	1bs			
14M. Cyanide, Total (57-12-5)	X			0.02	0.001	·				1	mg/l	1bs			
15M. Phenois, Total	Х			0,.25	0.013	0.25	0.013	0.156	0.005	23	mg/l	lbs			
DIOXIN				t y											
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6)			х	DESCRIBE RES	ULTS		et e		_						

EPA Form 3510-2C (Rev. 2-85)

Koppers003234

PAGE V-3

CONTINUE ON REVERSE

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

ONDO 2772 / 250

ODD 0 2772 / 250

ODD 0 2772 / 250

Approval expires 7-31-88

ONTINUED FROM	PAGE	V-4.		•	ORI	027734359		001				Approval expir	es 7-31-88		
I. POLLUTANT		MARK'		2		<b>3</b> , l	EFFLUENT	1 1		14.	4. UN	IITS		AKE (option	onal)
AND CAS NUMBER	ATEST.	D. BE- LIEVEDI PHE- SENT	C BE-	a. MAXIMUM	DAILY VALUE	b. MAXIMUM 3 (if ava	ODAY VALUE	c,LONG TERM (i/ ava	AVRG. VALUE	d NO.OF	a. CONCEN-	b. MASS	a. LONG AVERAG	TERM E VALUE	D. NO.OF
(if available)	RE- QUIR- ED	PHE	AB- SENY	CONCENTRATION	(Z) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(z) MASS	YSES	TRATION	D. MA33	(t) CONCENTRATION	(2) MASS	YSES
3C/MS FRACTION	– vo	LATILE	COM	POUNDS (conti	nued)			·							ļ
!2V. Methylene :hloride (75-09-2)	x			<2	ND					1	ug/l	1bs			
3V. 1,1,2,2-Tetra- hloroethane 79-34-5)	Х			<0.5	ND					1 .	ug/1	1bş			
4V. Tetrachloro- thylene (127-18-4)	Х			<0.5	ND					1	ug/l	lbs			
5V. Toluene 108-88-3)	X			. 1	<0.0001					1	ug/l	1bs			
6V. 1,2-Trans- )ichloroethylene 156-60-5)	Х			<0.5	ND					1	ug/l	1bs			
7V. 1,1,1-Tri- hloroethane 71-55-6)	Х			<0.5	ND		-			1	ug/l	lbs			
8V. 1,1,2-Tri- hloroethane 79-00-5)	Х			<0.5	ND					1	ug/l	lbs			
9V. Trichloro- thylene (79-01-6)	Х			<0.5	. ND		·			1	ug/l	lbs	,		
OV. Trichloro- luoromethane 75-69-4)	Х			<1	ND	1				1	ug/l	1bs			
1V. VInyl .: hloride (75-01-4)	Х			<10	ND					1	ug/1	1bs			
C/MS FRACTION	- AC	D COM	POUN	DS											
A. 2-Chlorophenol	Х			<1	ND					1	ug/l	lbs		, 	
A. 2,4-Dichloro- henoi (120-83-2)	Х			< 1	ND					1	ug/l	1bs			
A. 2,4-Dimethyl- henol (105-67-9)	Х			< 2	ND	·				1	ug/l	lbs			
A. 4,6-Dinitro-O- resol (534-52-1)	Х			<5	. ND				·	1	ug/l	1bs			
A. 2,4-Dinitro- henol (51-28-5)	Х			< 50	ND					1	ug/l	1bs			
A. 2-Nitrophenol 38-75-5)	Х			< 10	ND					1	ug/l	1bs			
A. 4-Nitrophenol 100-02-7)	Х			<100	ND					1	ug/l	1bs			
A. P-Chloro-M- resol (59-50-7)	Х			<.2	ND					1	ug/l	1bs			
A, Pentachiloro- henol (87-86-5)	Х			< 5	. ND					1	ug/l	lbs			
0A. Phenol 108-95-2)	Х			<.5	. ND					1	ug/l	lbs -			
1A. 2,4,6-Tri- hiorophenol 38-06-2)	Х			< 2	ND				-	1.	ug/l	lbs			1

Koppers003235

1. POLLUTANT		MARK		, ÷		3. E	FFLUENT				4. UN	NITS	5. INT	AKE (optio	onal)
AND CAS NUMBER	ATEST.	D. BE-	C BE.	B. MAXIMUM (	DAILY VALUE	b. MAXIMUM 30				d NO.OF	a. CONCEN- TRATION	b. MASS	A LONG		b, NO. OI
(i/ available) GC/MS FRACTION	QUIR-	SENT	ITDAI	CONCENTRATION	(2) MASS	CONCENTRATION	(1) MASS	CONCENTRATION	(z) MASS	YSES			(I) CONCENTRATION	(2) MASS	YSES
1B. Acenaphthene	- BA	SE/NE	INA	L COM CONDS			·····					<del></del>			<del> </del>
(83-32-9)	Х			< 1	ND		,			1	ug/l	lbs			<u> </u>
2B, Acenaphtylene (208-96-8)	Х		*	< 1	ND		•			1	ug/1	1bs			
3B, Anthracene (120-12-7)	Х			1	<0.0001					1	ug/1	1bs			
48, Benzidine (92-87-5)	Х			< 200	. ND					1	ug/l	1bs	. !		
5B. Benzo (a) Anthracene (56-55-3)	Х			< 3	ND					1	ug/l	1bs			
6B. Benzo <i>(a)</i> Pyrene (50-32-8)	х	ļ		< 5	ND					1	ug/l	lbs			
78. 3,4-Benzo- fluoranthene (205-99-2)	х			< 5	. ND					1	ug/l	1bs		,	
BB. Benzo (ghi) Perylene (191-24-2)	Х			< 5	ND					1	ug/l	lbs		·	
9B. Benzo (k) Fluoranthene (207-08-9)	х			< 5	ND					1	ug/l	lbs			
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)	Х			< 1	ND					1	ug/1	1bs			
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)	X			< 1	ND					1	ug/l	lbs			
12B. Bis (2-Chloroiso- propyl) Ether (102-60-1)	x			< 1	ND					1	ug/1	1bs			
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)	х		;	. <.2	. ND					1	ug/1	1bs			
148, 4-Bromo- phenyl Phenyl Ether (101-55-3)	Х			< 2	. ND	·				1	ug/1	lbs			
15B. Butyl Benzyl Phthalate (85-68-7				< 5	ND	·				1	ug/1	lbs			
16B. 2-Chloro- nephthalene (91-58-7)	Х			<u>~ 1</u>	ND	-				1	ug/1	lbs			
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)	Х			< 1	ND					1	ug/1	lbs			
18B. Chrysene (218-01-9)	Х			< 3	ND					1	ug/l	1bs			
19B. Dibenzo (a,h) Anthracene (53-70-3)	) :: <sub>X</sub>			· < 5	ND ·					1	ug/1	lbs			
20B. 1,2-Dichloro- benzene (95-50-1)			- 3"	.₩.   T< 1	ND					1	ug/l	1bs			
21B. 1,3-Dichloro- benzene (541-73-1			-	< 1	ND					1	ug/1	lbs			. 1

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

CONTINUED FROM PAGE				ORD027734359 001					Approval expires 7-31-88							
I. POLLUTAN	r _ 2.	MARK	' <b>x</b> '	<				EFFLUENT				4. Ur	VITS		AKE (option	onal)
AND CAS Number	ATEST	b. ne-	C se-	a. MAX	(IMUM I	DAILY VALUE	b. MAXIMUM 3	O DAY VALUE	CLONG TERM	AVRG. VALUE	d, NO. OF	a. CONCEN-		a, LONG	TERM	b. NO.
(if available)	GRIW-	D BE-	SENT	CONCEN	)	(2) MASS	CONCENTRATION	(2) MASS	(I)	-(2) MASS	ANAL-	TRATION	b. MASS	(I) CONCEN-	(2) MASS	YSE
C/MS FRACTIO							CONCENTRATION		CONCENTRATION		<u> </u>			THATION		1
22B. 1,4-Dichlord benzene (106-46-	y X	-		×		ND	-				1	ug/l	1bs			
238, 3,3'-Dichlor benzidine (91-94-1)	o v			<u> </u>	50	ND					1	ug/1	lbs			
24B. Diethyl Phthalate (84-66-2)	X			<		ND				×0, ×0	1	ug/l	1bs		,	
25B. Dimethyl Phthalate (131-11-3)	Х			<	1	ND					1	_ug/1	lbs			
26B. DI-N-Butyl Phthalate (84-74-2)	х			<	1	ND			·		1	ug/1	lbs			
27B, 2,4-Dinitro- toluene (121-14-2				<	5	ND					1	ug/l	lbs		·	
28B. 2,6-Dinitro- toluene (606-20-	2) X			<	5	ND					1	ug/l	lbs			
29B. Di-N-Octyl Phthalate (117-84-0)	х			<	2	ND					1	ug/l	lbs	,		
30B. 1,2-Dipheny nydrazine (as Aza nenzene) (122-66-	- I v			<	5	ND					1	ug/l	lbs			
31B, Fluoranther (206-44-0)	X		ļ		6	<0.0003					1.	ug/l	1bs			
32B. Fluorene (86-73-7)	Х			<	1 .	ND					1	ug/l	lbs .			
138. Hexachlorobenze	ne X	-	ļ	<	1	ND .					1	ug/l	1bs			ļ
34B. Hexa- chlorobutadiene (87-68-3)	х			<	2	ND					. 1	ug/l	lbs			<u> </u>
35B. Hexachloro cyclopentadiene (77-47-4)	. х			<	. 5	ND		,			1	ug/1	lbs			
36B. Hexachloro ethane (67-72-1)	X	-		<	3	ND					1 .	ug/l	lbs			
37B, Indeno (1,2,3-cd) Pyrene (193-39-5)	<del>  ^</del>			<	5	ND					1	ug/l	lbs			
38B. Isophorone (78-59-1)	X			<	2	ND					1	ug/l	1bs			
39B. Naphthalen (91-20-3)	X			<	1	ND	1				1	ug/l	1bs			_
40B. Nitrobenze (98-95-3)	ne X			<	2	ND					1	ug/l	lbs			-
41B. N-Nitro- sodimethylamine (62-75-9)	X	+	<u> </u>		50	ND					1	ug/l	1bs			
42B, N-Nitrosod N-Propylamine (621-64-7)	i- X			<	5	ND		-			1	ug/l	1bs			

CONTINUED FROM THE FRONT
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1. POLLUTANT	2. (	MARK	'X' · · ·	and gray to the		3. 1	EFFLUENT		•		4. UN	IITS ···	5. INTAKE (optional)		
AND CAS NUMBER	ATEST.	b. = E-	C mg.	a. MAXIMUM I	DAILY VALUE	b. MAXIMUM 3	O DAY VALUE	c.LONG TERM	AVRG. VALUE	d, NO. OF	a. CONCEN			TERM	b. NO. OF
(if available)	BR.	PHE	SENT TIEVED C BE-	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	(I)	(1) MASE	AN'AL. YSES	a, CONCEN- TRATION	b. MASS	(I) CONCEN-	(2) MABS	ANAL- YSES
GC/MS FRACTION	- BAS	SE/NE	JTRAL	COMPOUNDS	(continued)	i						·····	1,7,2,1,3,1		
43B, N-Nitro- sodiphenylamine (86-30-6)	х		*	< 5	ND					1	ug/1	1bs			
448, Phenanthrene (85-01-8)	X			< 1	. ND					.; 1	ug/1	1bs			
458. Pyrene (129-00-0)	X			1	< 0.0005					1	ug/l	lbs ·			
46B. 1,2,4 - Tri- chlorobenzene (120-82-1)	Х			< 1	ND			·		. 1	ug/l	1bs			
GC/MS FRACTION	- PES	TICID	ES -	egorjes (Artiste e Artist						27		1 4 1 44			<u> </u>
1P, Aldrin (309-00-2)	X			< 3	ND					1	ug/l	1bs			ļ
2P. <i>Q</i> -BHC (319-84-6)	х			< 5	ND					1	ug/l	1bs			
3P. β-BHC (319-85-7)	Х			< 5	ND					1	ug/l	lbs			
4P. γ-BHC (58-89-9)	Х			<b>₹</b> 5	ND	·				1	ug/l	1bs			
5P. δ-BHC (319-86-8)	X			< 5	ND					1	ug/l	lbs			
6P. Chlordana (57-74-9)	X			< 50	ND					1	ug/l	lbs			
7P. 4,4'-DDT (50-29-3)	Х	, .		< 5	ND					1	ug/1	1bs			
8P. 4,4'-DDE (72-55-9)	Х			< 5	\ ND					1	ug/l	1bs			
9P. 4,4'-DDD (72-54-8)	Х		. i	< 5	ND					1.	ug/l	lbs			
10P. Dieldrin (60-57-1) (1)	Х			< 5	ND	, .				1	ug/l	lbs `			
11P. Q-Endosulfan (115-29-7)	X			< 20	ND					1	ug/1	lbs			
12P. β-Endosulfan (115-29-7)	Х			< 20	ND					1	ug/1	1bs			
13P. Endosulfan Sulfate (1031-07-8)	Х			< 20	ND.					1	ug/l	1bs			
14P, Endrin (72-20-8)	Х			<b>&lt;</b> 100	ND						ug/l	lbs			
15P, Endrin Aldehyde (7421-93-4)	· X		į	< 100	ND					1	ug/l	lbs			
16P. Heptachlor (76-44-8)	х			, < <u>2</u>	ND .					-1	ug/l	lbs			g -8

Koppers003238

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER ORDO2773/350

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

CONTINUED FRO	M PAG	E V-8			-	ORD02773435	9	. 00	L ·			Approva	expires 7-31-8	18	
1. POLLUTANT	2. MARK 'X'						FFLUENT				4. UNITS 5. INTAKE (optional)			onal)	
AND CAS NUMBER	ATEST ING RE- QUIR-	b, 0 5	C BE-	8. MAXIMUM DAIL	DAILY VALUE	b. MAXIMUM 31	DAY VALUE	CLONG TERM	AVRG. VALUE	IL NO. OF	A. CONCEN-	b, MASS	A LONG	TERM E VALUE	b, NO.C
(if available)		GUIR.	_	SENT	(I)	(Z) MASS	(I)	(z) MASS	(+)	{/} MASS	YSES	TRATION	U. M.A.S.	(I) CONCEN- TRATION	(2) MABS
GC/MS FRACTION	I – PES	STICID	ES (co	ntinued)								·			
17P. Heptachlor Epoxide (1024-57-3)	Х			<b>&lt;</b> 5	ND					1	ug/l	1bs			
18P. PCB-1242 (53469-21-9)	Х			<100	ND	-				1	ug/l	lbs			
19P. PCB-1254 (11097-69-1)	Х			<100	ND .					1	ug/l	lbs			
20P. PCB-1221 (11104-28-2)	Х			<100	. ND					1	ug/l	1bs			
21P. PCB-1232 (11141-16-5)	Х			<100	ND					1	ug/l	lbs	!		
22P. PCB-1248 (12672-29-6)	х			<100	ND					1	ug/l	lbs			
23P, PCB-1260 (11096:82-5)	х			<100	ND					1	ug/l	1bs			
24P. PCB-1016 (12674-11-2)	Х			<100	ND					1	ug/l	lbs.			
25P. Toxaphene (8001-35-2)	х			<100	ND					1	ug/l	lbs			

, HORTH S. DE P.TOIL

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CONTINGENCY PLAN, SPILL PREVENTION, CONTROL, AND COUNTERMEASURES (SPCC) PLAN

unlander sta

AND
STORM WATER POLLUTION PREVENTION PLAN
KOPPERS INDUSTRIES, INC.
NORTHWEST TERMINAL
7540 NW Saint Helens Rd.
PORTLAND, OR 97210-3663
July 11, 2002

#### - CERTIFICATION

I here by certify that I have inspected the subject facility, and being familiar with the provisions of 40 CFR 112 for SPCC requirements and 40 CFR 122 for Storm Water Pollution Prevention requirements, attest that this Plan has been prepared in accordance with good engineering practices.

William A. Meisinger, P.E. Koppers Industries, Inc. Manager of Engineering PENNA. # PE-038022-E

Date:

MANAGEMENT APPROVAL

This SPCC Man will be implemented as herein described.

Amos Kamerer Plan Manager Mitan aller 7.11.02

# CONTINGENCY, SPCC AND POLLUTION PREVENTION PLAN

KOPPERS INDUSTRIES, INC.

NORTHWEST TERMINAL

PORTLAND, OR

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Attachment - A Environmental Incident Communication & Reporting Policy A1 - A8

#### 1.0 INTRODUCTION

This plan has been developed to: a) provide a basis for planning for and responding to potential spills, accidents, fires, or other contingencies and b) describe and implement practices to minimize and control pollutants in storm water discharges and ensure discharge permit compliance. It includes the requirements for the Contingency Plan as required by the Resources Conservation and Recovery Act (RCRA), the Spill Prevention, Control and Countermeasures (SPCC) Plan and Storm Water Pollution Prevention Plan (SWPPP) of the Clean Water Act, and the inventory reporting requirements of the Emergency Planning and Community Right-to Know Act (SARA Title III).

Questions concerning this plan may be directed to:

Amos S. Kamerer Plant Manager (503) 286-3681

T.J. Turner General Foreman (503) 286-3681

#### 1.1 FACILITY LOCATION

The Northwest Terminal is located in Multnomah County in the city of Portland, OR. The terminal is located on approximately 6.4 acres of leased property. The property owner is the N W Natural, 220 NW Second Avenue, and Portland, OR, 97209. The portion of the property that Koppers Industries leases is addressed as 7540 NW Saint Helens Rd., Portland, OR, 97210-3663. The property is bounded by Saint Helens Road (Oregon State Highway 30) on the south, the N W Natural property extending to the shore of the Willamette River on the north. The N W Natural liquefied natural gas plant on the west. The south end of NW Front Ave. separates Koppers property from Wacker Siltronic Corporation, on the eastern boundary. On average, 6 to 8 people are employed at any one time, at the terminal (3 salaried people, 3 to 5 hourly people). Normal operating hours is from 4:00 p.m. on Sundays through 4:00 p.m. on Fridays. Generally, the plant is closed on the weekends.

#### 1.2 OPERATION

Coal tar pitch is imported via bulk and/or liquid cargo vessels. This product is then stored at the terminal, prior to the distribution to our customers. Outbound shipments are made via tank truck or tank cars.

The solid coal tar pitch is imported via bulk cargo vessels through the Port of Longview, Washington and is then trucked from Longview to the terminal. The liquid coal tar pitch is imported via a bulk cargo vessel that is also equipped with heated storage tanks for hauling the pitch. These receipts arrive at the NW Natural Gasco dock on the Willamette River, where they are pumped from the vessel, through a pipeline that is about 2,400 feet long, to a storage tank at the terminal.

All products and/or chemicals used or handled through the terminal are covered by material safety data sheets, which are on file. All employees have been trained on the usage of these materials and educated in the proper manner of reading and understanding of the material safety data sheets. This training is mandatory and is given annually.

#### 1.3 COORDINATED EMERGENCY SERVICES

This plan is written to facilitate the quick and efficient coordination of emergency response actions between Koppers Industries, Inc. (Koppers) and any emergency response companies or agencies, which may be needed. Copies of this plan, and updates, are provided to the following:

Oregon, Department of Environmental Quality

Portland Fire Department

City of Portland, Bureau of Environmental Services

**US Coast Guard** 

Pacific Terminal Services, Inc.

Plant Supervisors and Employee's

Instructions on how and when to obtain assistance for emergency situations including agency and contractor phone numbers are included in this plan.

#### 1.4 SPCC AND SWPPP PLAN MAINTENANCE

This Plan must be kept up to date. Notify Koppers' Environmental Program Manager in the event of any changes made. Automatic review, evaluation and recertification by a Professional Engineer are required once every three years from the date of the latest certification. This Plan must also be amended whenever there is a change in design, construction, operation or maintenance which materially affects the facility's potential for discharge, and the amendment fully implemented as soon as possible and no later than within six months.

A copy of this Plan is to be maintained in the plant's main office and the plants control room.

Notify the Environmental Program manager if any amendment needs to be made to this Plan.

#### 2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

#### 2.1 Discussion

Various materials used at the Koppers facility are considered hazardous based on the toxicity or flammability of those materials. These include coal tar distillate, coal tar pitch, boiler water treatment chemicals, diesel, gasoline, heat transfer oil and lubricants for plant vehicles and equipment.

#### 2.2 Business Information and Identification

The following information applies to the Koppers Industries Northwest Terminal:

**Business Name:** 

Koppers Industries, Inc.

**Business Phone:** 

(503) 286-3681

**Business Fax:** 

(503) 285-2831

Owner:

Koppers Industries, Inc.

436 Seventh Ave. Pittsburgh, PA 15219

Operator:

Same as owner

SIC Code:

2865

**EPA ID Number:** 

ORD 027734359

Site Address:

7540 NW Saint Helens Road

Portland, OR 97210-3663

Mail Address:

Same as above

Type of Business:

Coal Tar Pitch Terminal

#### 2.3 Emergency Contacts/ Emergency Coordinators

Name/Address

Amos S. Kamerer, Plant Manager 5912 Knightsbridge Drive Portland, OR 97219

Home Phone

Cellular Phone (503) 705-8748

T.J. Turner, General Forman 17815 NE 152<sup>nd</sup>. Avenue Bush Prairie, WA 98606 Home Phone

Cellular Phone (503) 705-9507

The above people can normally be reached during work hours at the business phone number, (503) 286-3681. Additionally, the night shift operator, when there is a night shift during the normal 5-day workweek, can be reached at (503) 286-3682 or cellular phone at (503) 250-0672.

The plant manager is the Primary Emergency Coordinator and should be contacted first. If he is not available, the others should be called, in the order listed, until someone is reached. The Primary Emergency Coordinator and alternates have complete authority to commit all necessary resources of the company in the event of an emergency.

During off shifts, the shift operator will notify the Emergency Coordinator (above) who will assume responsibility for implementation upon his arrival at the terminal. Also, on weekends and holidays when there is no shift work occurring, the terminal is patrolled by NW Natural's Pinkerton Security guards who make rounds through the terminal, hourly. The guards have been provided with a list of emergency phone numbers to call in case of a problem.

Phone numbers for Koppers Industries Corporate Contacts are provided on Page 14.

#### 2.4 Hazardous Materials Inventory

The products used, or stored on the Koppers facility are listed by tank number in, Table 3.7. (Tank Listings Table) and is found on page 11. These tanks are also shown by number on the site map, found on page 26. All other buildings and structures are also shown on the site map.

#### 3.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURES

#### 3.1 Description

This section of the Plan provides information specific to the storage and handling of hazardous liquids; spill prevention and containment equipment, and countermeasures to be implemented to control the impact of a spill. The Tank Listings Table, Table 3.11, lists all the tanks at the Koppers terminal by number, along with contents and the tank capacities. The location of these can be found on the site map, on page 26.

#### 3.2 Conformance with SPCC Standards and Guidelines

This facility meets the minimum requirements for diversionary structures and equipment to prevent discharged oil or hazardous substances from reaching navigable waters as required by 40 CFR 112.7© by providing secondary containment for all major tanks and process equipment.

The Northwest terminal is in conformance with the applicable guidelines of 40 CFR 112.7 ©. Rainwater is collected, stored and then tested prior to discharge; all in accordance with our NPDES permit requirements. Tank installations are equipped with secondary containment and are regularly inspected by operators. Spill prevention details for equipment and processes are discussed more fully below.

#### 3.3 Inspections and Security

The operator that is on duty, through out each shift checks all operational areas in the plant every 2 hours. Any problems or unusual circumstances which cannot be immediately resolved are reported to the Supervisor.

#### 3.4 General Plant Spill Prevention

A hazardous material spill can occur any place, any time. All employees are prepared to respond immediately to control the situation and to notify management. Containing a spill to the smallest area possible is the first step.

Containment can quickly be constructed using available equipment and supplies; usually by placing dirt, sand, or available absorbent pads or absorbent containment booms around the lower side of a spill. If possible, a spill will be prevented from reaching the surface water drainage where it can spread more rapidly and have greater environmental and health impact.

Employees familiar with the equipment involved supervise loading operations. Buckets and/or pans are placed under hose connections to collect drips. The employees are trained to always be watchful that hoses and/or pipelines can be full of product and that they should take extra care when disconnecting hoses. Properly, and promptly cleanup any drips or spills. Supervisors must be notified of any spills that are outside of the containment areas. Collected materials will be returned to the processes or will be properly containerized for disposal.

#### 3.5 Surface Drainage

The terminal property is at 37' above sea level and our out-fall for pumping off the collected storm water runoff is located on the very southeastern tip of the property, at approximately a 10 ft elevation above a creek that flows to the Willamette River.

In the Northwest terminal there are two run-off patterns for site drainage. The first is directly in front of the office and away from any pitch handling areas. This area would not be threatened by a spill. All other run-off areas from the plant feed into the tank farm and then into a concrete collection sump. Dual sump pumps (one operation and one standby) lift the run-off into the storm water storage tanks #1, #2, #3, #4, #5, and #6. When these tanks fill, they are sampled and the samples are taken to an Oregon Department of Environmental Quality approved laboratory for analysis in accordance with our NPDES permit limits. When the laboratory reports that the test results are within the permit limit parameters, the water is pumped to the out-fall referenced above.

Equipment, including secondary spill containment, has been installed and procedures implemented to prevent oil or hazardous materials from leaving the plant. A spill is most likely to occur in the process area, where it can be contained.

Koppers has installed extensive paving at the coal tar distillate tank car heat exchanger unloading station, including paving between the rail tracks and the loading area for trucks. In addition, a below grade sealed concrete sump was installed as a catch basin. This catch basin has approximately 1500-gallon capacity. Also two-sump pumps have been installed. The first pump is automatically activated and pumps collected storm water into the tank farm storm water run-off, collection system for further handling.

The second pump is energized only when unloading coal tar distillate rail cars. This pump is on a float-activated switch and is piped to #39 tank, which is now designated as the emergency response tank at this location. Tank #39 is of sufficient capacity to hold the gallonage of a full tank car or 20,000 gallons. It is the duty of the loading/unloading employee to clear the catch basin of water, then open the valve to tank #39 and energize the automatic pump. In this way, should a distillate spill occur, all precautions are in place to contain the spill.

In the case of a spill in which hazardous materials or oils reach any of the drainage ditches, immediate action must be taken to contain the spill. Temporary earth dams should be constructed using plant equipment along the ditches, creating a series of impoundments to contain the flow. Sorbent booms may be used to remove containments from the water held behind the dams, is needed.

These dams can only hold back a limited amount of water, so emergency help should be contacted at the first sign that such a spill has occurred or may occur.

#### 3.6 Tank Car Unloading

Tank cars are unloaded at the unloading station, where the process transfer pipelines are all above ground. The potential spill sources in this area include leaks from the process tanks, valves, pumps, and pipe systems. These leaks can best be prevented by proper valve and pump maintenance and equipment inspection during material transfers. Any leaks or drips must be cleaned up immediately.

As part of the operation procedures, drains and outlets on tank trucks and tank cars are checked for leakage before and after each loading and unloading operation. Operations personnel performing loading and unloading activities are instructed to inspect piping and pumps associated with these activities and to report spills or leakage.

The driver performs a visual inspection of the truck and trailer after each loading and if repairs are needed the truck is shopped for repairs.

The operating procedures included in this plan form the basis for the training of operations personnel in the prevention of coal tar distillate or coal tar pitch discharges. Job positions within the Northwest terminal require that new personnel, working in unfamiliar process areas will have a senior experienced employee to guide them. Personnel are also instructed in the operation and maintenance of equipment to prevent discharges.

#### 3.7 Vessel Unloading

As of December 1999 a project was completed which gives this facility the capability of unloading liquid coal tar pitch vessels at the GASCO dock, directly to a new storage tank T-200. The unloading is accomplished through a pipeline that runs from the GASCO dock on the Willamette River to tank T-200. The liquid coal tar pitch is unloaded at an elevated temperature of approximately 400 degrees F. To maintain the liquid pitch at these temperatures there is a companion line that is attached to the outside of the unloading line, with a heat transfer oil running through it to provide the maintenance heat that is required. There is containment on the GASCO dock, at the end of the pipeline, should a release occur. In an effort to minimize the impact of such a release, a leak detection monitoring system has been installed on the heat transfer oil lines, which will automatically shut off the flow of the heat transfer oil, to and from the dock. There is curbed containment at the on shore leak detection monitoring station; and also around the tank T-200 area, should a release occur at either location.

Containment boom is placed to surround the entire unloading/loading area prior to loading or unloading any vessel. In the event of a release of coal tar pitch or heat transfer fluid that reaches the Willamette River, the containment boom will already be in place and Pacific Terminal Services, Inc. (PTSI) personnel will notify the Qualified Individual from Koppers Industries, Inc. and the contracted Oil Spill Response Organization (OSRO) to remediate the discharge. Pacific Terminal Services, Inc. (PTSI) personnel are also equipped to deploy the containment boom in the unlikely event that the heat transfer oil ruptures and the discharge reaches the Willamette River.

The discharges of our liquid coal tar pitch vessels, at the GASCO dock, will be handled through a contract for the tankermen services, with Pacific Terminal Services, Inc. (PTSI). PTSI has amended their operating authority letter with the U. S. Coast Guard, their Oil Spill Contingency Plan, and their Operating Manual, to reflect the addition of the handling our liquid coal tar pitch.

#### 3.8 Tank Farm

The concrete-wall-lined and earth-diked tank farm has a total containment capacity of approximately 2,900,000 gallons. Operators regularly walk and inspect this area, checking for corrosion, leaks or stains, or anything out of the ordinary. They also do any housekeeping, as necessary.

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Table 3.8
TANK LISTING TABLE
Koppers Industries, Northwest Plant

Tank No.	Current use	Last contained	Capacity (000)
1.	SW Surge	Crude Tar	660 M
2.	SW Surge	Crude Tar	1065 M
3.	SW Surge	Methyl Solvent	99 M
4.	SW Surge	Lt. Uncorrected Distillate	99 M
11.	SW Surge	Creosote	254 M
12.	SW Surge	Unknown	57 M
17.	SW Surge	Heavy Oil Distillate	20 M
18.	SW Surge	NSR Oil	20 M
19.	SW Surge	P & R Oil	20 M
20.	SW Surge	Creosote	317 M
23.	SW Surge	Lt. Uncorrected Distillate	20 M
33.	Heavy Oil	Heavy Oil Distillate	45 M
34.	SW Surge	NSR Oil.	45 M
39.	SW Surge	Creosote	20 M
53.	SW Surge	Creosote	10 M
65.	Liquid Pitch	Heavy Oil Distillate	761 M
66.	SW Surge	Creosote	191 M
67.	Heavy Oil	Heavy Oil Distillate	102 M
68.	Liquid Pitch	Liquid Pitch	248 M
74.	SW Surge	Creosote	20 M
99.	SW Surge	Creosote	209 M
101.	SW Surge	Creosote	759 M
102.	Fume Tank	Heavy Oil Distillate	9.3 M
200	Liquid Pitch	Liquid Pitch	2100 M
V201	SW Surge	Liquid Pitch	19 M
V207	SW Surge	Liquid Pitch	19 M
240	Heat Transfer Oil	Heat Transfer Oil	2 M
250	Heat Transfer Oil	Heat Transfer Oil	2 M
SW #1	Storm Water (SW)		45 M
SW #2	Storm Water (SW)		45 M
SW #3	Storm Water (SW)		45 M
SW #4	Storm Water (SW)		45 M
SW #5	Storm Water (SW)		20 M
SW #6	Storm Water (SW)		20 M
DSL-1	Diesel Storage	Diesel	4.5 M
DSL-2	Diesel Storage	Diesel	4.5 M

0, (

#### 3.9 Fuel and Lubrication Oil

All fuels and lubricating Oils are stored in the Oil Storage Shed, adjacent to track 5, between the Office and the Service Room buildings. Drums are stored upright and kept sealed and are on containment skids. Dispensing areas are kept clean. Oil drippage is contained. Any minor spills are contained and cleaned up immediately.

#### 3.10 Hazardous Waste Storage Facilities

Hazardous waste is placed in drums when generated. Full drums are stored in the Oil Storage Shed. The drum or drums, are then disposed of through RCRA approved facilities, within less than 90 days.

#### 4.0 EMERGENCY RESPONSE PROCEDURES

#### 4.1 General

This section of the Plan describes the actions that are to be taken by Koppers personnel in response to any injury, accident, fire explosion, or unplanned release of any hazardous material to the air, soil, or water.

#### 4.2 Emergency Coordination

As soon as an employee discovers an emergency situation, that person shall quickly estimate the extent of the problem, take safe and appropriate control action, and then notify the terminal management immediately. Per the list in Section 2.3 page 7, the operator, who is present, will assume the responsibilities of <a href="Emergency Coordinator"><u>Emergency Coordinator</u></a> (EC). Other personnel will respond as directed by the EC as needed.

The EC has Koppers Industries' authority to commit plant employees and contract labor and equipment, or to purchase supplies as needed.

Effective communication is vital in any emergency response. All terminal employees have portable two-way radios, which will be used for communication and coordination between the plant offices and yard areas. Phones may also be used between offices.

#### 4.3 Immediate Response

As soon as an employee discovers an emergency situation, he should quickly determine the extent of the problem. If a simple action can be taken to control the situation, such as shutting a valve to stop the flow from a ruptured pipe and the action can be done safely, then the control action should be completed first. If there is no simple safe control action, the operator shall immediately notify the terminal management and any other personnel who may be endangered by the incident, by by two-way radio radio.

#### 4.4 Response Procedures

- 4.4.1 Upon discovery or notification that an emergency exists, the EC shall:
- Determine the extent of the emergency.
- Implement plant evacuation, if needed, to prevent injury.
- Call for outside assistance as needed.
- Start immediate control actions.
- Implement cleanup or other responses.
- Notify local, state, and federal agencies as required.
- Notify Koppers Pittsburgh Office.
- Assure completion of cleanup.
- Provide for storage of cleanup material, including hazardous waste.
- Evaluate possible hazards to human health or environment.
- Make a final written incident report.
- Make other notifications as stated in Section 3.5, Emergency Notifications.

Many of these actions may occur concurrently.

- 4.4.2 Whenever there is a release, fire, or explosion, the emergency coordinator should immediately identify the character, exact source, the amount, and area affected by the incident. This may be done by observation, or review of facility records, or manifests and if necessary, by chemical analysis. Form 4.5.5, pages 17 20, should be used to document the information needed for notifications.
- 4.4.3 Concurrently, the Emergency Coordinator shall assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment shall consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any hazardous or asphyxiating gases that are generated or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).
- 4.4.4 If the Emergency Coordinator determines that the facility has had a release, fire, or explosion which could threaten human health or the environment, outside of the facility, or if the released amount of hazardous or extremely hazardous material exceeds the Reportable Quantity (RQ). These findings shall be immediately reported (within 15 minutes) to the National Response Center as in Section 4.5, Emergency Notifications, all per the Koppers Industries Environmental Incident Communication and Reporting Policy (KII-E-002). A copy of this Policy and the Incident Reporting forms are found in Attachment A to this Plan.

Note: The reportable quantities for Koppers products are listed on pages number 5 & 6 of the Environmental Incident Communication and Reporting Policy, found in Attachment A of this Plan.

If his assessment indicates that evacuation of local areas may be advisable, appropriate local authorities shall be notified immediately. The Emergency Coordinator shall be available to help appropriate officials decide whether local areas should be evacuated.

- 4.4.5 During an emergency, the Emergency Coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes or materials at the plant. These measures could include turning water sprays onto tanks, stopping and isolating processes, shutting off power to areas collecting and containing released materials, or moving and isolating other containers.
- 4.4.6 If some or all operations are stopped in response to an emergency, the emergency coordinator shall monitor tanks, pipes, valves, and other process equipment for leaks, pressure build-up or ruptures wherever appropriate.
- 4.4.7 Immediately after an emergency, the Emergency Coordinator shall provide for treating, storing, or disposing of recovered materials or wastes, contaminated soil, surface water, or any other material that results from a release, fire or explosion.
  - 4.4.8 Before resuming operations, the Emergency Coordinator shall:
  - a. Insure that clean up is complete to the point that operations will not interfere or create further potential for hazardous waste release.
  - b. Insure that all emergency equipment is cleaned and fit for use.
  - c. If hazardous wastes or a hazardous waste unit has been involved, then advise the Dept. of Environmental Quality and EPA region X that Steps a and b above are complete.
- 4.4.9 If hazardous wastes or the hazardous waste unit has been involved, the Emergency Coordinator shall submit a written report as requested by the Dept. of Environmental Quality. A copy of the completed report shall be maintained in the Operating Record.
  - 4.5 Emergency Notifications
- 4.5.1 The Emergency Coordinator shall ensure that the necessary notifications are made. Form 4.5.5 entitled, "Emergency and/or Hazardous Materials Incident Report" is to be used. Page one is organized to provide all of the information needed for the initial verbal notification of the National Response Center of other agencies. As soon as a spill or other incident is discovered, the supervisor/manager who will do the reporting should begin filling in the information.

Page 2 should be used as a log of notification made. Get the position and name of the person who accepts the phone notifications. Also, if an incident number is assigned, as by the National

Response Center, that number should be recorded. As more is learned about the incident, the report should be updated. Updates can be recorded on page 2 as well.

Pages 1,2, and 3, competed either by hand or typed, can be used for the required written notification of agencies. These should be sent with cover litters showing everyone who will get copies. Copies must be kept in the plant's Operating Record.

Finally, page 4 should be used for Koppers Industries internal reporting of additional related information. KII has an obligation to report all spills, which could possibly, impact over-all cleanup work. The complete report, Pages 1,2,3, and 4 should be sent to the Environmental Program Manager including original photographs. He will provide the required notification to Beazer East, Inc.

4.5.2 What spills or incidents must be reported and to whom?

The following is a summary. Note that more than one category may apply.

#### If outside help is needed. IMMEDIATELY:

Call fire and/or other appropriate emergency agencies describe incident and needed assistance, such as fire suppression, medical aid, evacuation and/or crowd control.

If a release or threatened release of hazardous material: OR

If a health threat or release outside of facility: OR

If the release results in or has the potential to cause an oil sheen on or discoloration of runoff water:

Call 911 for immediate help. If the release involved a Reportable Quantity (RQ) then call both the Oregon Emergency Management Office at 1-800-424-8802 and the National Response Center at 1-800-424-8802.

Such releases that cannot be recovered must also be included in the SARA Title III annual reports.

If the release results in or has the potential to reach the City Storm or Sanitary Sewer drains, IMMEDIATELY:

Call the Duty Officer at 823-7180

If hazardous waste or a hazardous waste unit is involved OR if the plant contingency plan is implemented: IMMEDIATELY AND NOT LATER THAN 24 HOURS:

Call the Oregon Emergency Management Office at 1-800-452-0311

AND, Within 15 days

Submit a written report of the incident to them at:

595 Cottage Street. N.E. Salem, Oregon 97310

If the release impacts the waters of the United States, a written report must also be sent to the EPA, as follows: Environmental Protection Agency

Director, Region X 1200 Sixth Avenue Seattle, Wash. 98101

# If injuries result in 3 or more people being hospitalized or 1 or more person killed, IMMEDIATELY:

Call the US Occupational Safety and Health Administration or authorized state OSHA agency WITHIN 8 HOURS!

In all cases, as soon as the emergency situation allows, Koppers management in Pittsburgh shall be called. Follow the guidance contained in "Internal Emergency Notification Procedures" for Koppers Industries, Inc. At least one of the following contacts in Pittsburgh shall be notified:

Name, Position	Work Phone	Home Phone	Cellular Phone
Traci Self, Mgr. Environmental Compliance	412/227-2883		412/913-9358
Mike Juba, Mgr. Health & Safety	412/227-2882		412/897-8407
Randy Collins, Mgr. Loss Control	412/227-2456		412/551-4554

# Form 4.5.3

# EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

OWNER/OPERATOR: Plant Name: Street Address: City/State/Zip: Phone: EPA ID#:	Koppers Industries, Inc. Northwest Terminal 7540 N.W. Saint Helens Road. Portland, Or 97210-3663 (503) 286-3681 ORD 0267734359									
FACILITY: Same as above										
DATE OF INCIDENT:	TIME OF INCII	DENT:								
(Circle one) Other:	e, Explosion, Hazardous Material Spill, Hazardous Waste Spill, Injury Accident	•								
MATERIAL INVOLVED										
<u>Name</u>	Quantity	Media (soil, water, etc.)								
EXTENT OF INJURIES, I	IF ANY:									
DISPOSITION OF RECO  Material Qua	VERED MATERIAL: <pre>ntity</pre> How Disposed o	r Stored								

Page 2

NOTIFICATION LO	OG:		
Agency	Phone No.	Name of Person	Date/Time Notified
Portland Fire Dept.	911		
Oregon Emergency	Management 1-800-452-0311		
National Response (	Center 1-800-424-8802		
Oregon OSHA	503-229-5910		
City Duty Officer (For Storm, S	503-823-7180 Sewer, and Drain Cont	tamination, only)	
Northwest Natural	503-224-3532		
Wacker Siltronics	503-243-2020		
Security for	FAB #1 Ext. 7420		
Security for	FAB #2 Ext. 4300		<del></del>
Fuel & Marine Mark	xeting, LLC 503-286-5321		
Manager of Environ	mental Compliance, T	raci Self	
Home 412-2	227-2883 247-5515 101-7334		

# Page 3

ADDITIONAL needed):	DESCRIPTION	OF	INCIDENT	AND	ACTIONS	TAKEN	(Attach	page	if
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# Page 4

## SUPPLEMENTAL INFORMATION REPORT (This part of the report is intended for KII internal use only.)

CLEARLY DESCRIBE HOW INCIDENT OCCURRED:
WHAT ACTS OR CONDITIONS MOST DIRECTLY CAUSED THE INCIDENT:
DESCRIBE ANY RESIDUAL CONTAMINATION OR IMPACT:
ATTACH PHOTOGRAPHS WHICH SHOW INCIDENT AREA, BEFORE AND AFTER RESPONSE ACTIONS. MARK DATE ON PHOTOS. ATTACH

ADDITIONAL SHEETS AS NEEDED TO DESCRIBE INCIDENT AND THE RESPONSE ACTIONS TAKEN.

### 4.6 Available Equipment

The following equipment is available at the plant:

EQUIPMENT Front-end loader	STORAGE LOCATION Pitch storage building	<u>CAPABILITIES</u> Placement of materials and equipment, construct containments, control and contain spillage area.
1 Pickup Truck	Office parking lot	Transport materials and equipment
Oil absorbent Pads	Various Emergency-	Absorb and contain spilled liquids,
and Booms	-Response Cabinets	
Lift Truck	Shop area	Transport and placement of materials and equipment
Portable Pump	Shop area	Pump liquids back into containments.
Sand	Along the wall, West of the boiler house	Containment dam building material and absorbent
Hand tools	Shop area	Pick-up contaminated soil and material and clean spillage area.
Drums	North-side pitch- - warehouse	To hold contaminated soil and material from clean-up actions

The above equipment can be effectively used to control and clean a spill of oil, hazardous material, or hazardous waste. Trucks and tractors can be used to transport and place soil for containment dams, absorbing spilled liquid, and contaminated soil from cleanup actions. Pumps can be used to pump spilled liquid back into containments. After response action is complete, equipment should be placed on the drip pad or vehicle wash pad and be decontaminated with the steam cleaner prior to being released from the response.

### 4.7 Emergency Response Contract Service

Koppers has a Corporate Agreement with IT Corporation to provide for any environmental services in the event of an emergency. IT Corporation can be reached 24 hours per day at # 1-800-537-9540. Ask for the "EMERGENCY RESPONSE MANAGER". IT Corporation is to provide notification within 30 minutes after receipt of the emergency call, of its acceptance of the work and their expected response time.

### 4.8 Fire and Disaster Response Plans

4.8.1 This section of the Plan provides additional information on specific response actions to be taken in the event of a major disaster, emergency, or other disruption. Such an event could include:

- Fire or explosion
- Earthquake
- Strike or civil strife

4.8.2 Fire disasters can occur anywhere in the plant environment, so all employees should be knowledgeable as to the proper method for handling all types of fires, and where the largest potential risk areas are located. Communications with and between plant employees is vital to a safe and effective response.

### 4.8.3 Designated Response Stations

In the case of a disaster or other major incident, employees shall secure their work areas and processes and then report to the Plant Manager and/or General Foreman, at the main office, if they are not directly involved in Emergency Response.

Plant Office Employees stay at the office. Coordinate outside calls, inquiries, and media contacts.

### 4.8.4 Evacuation

The need for evacuation shall be signaled by a message over the radio to all employees. All employees shall follow the safest path to meet at the closest location outside the property fence. If the main entrance is **not** affected, the employees should meet at Wacker Siltronics guard shack on the entrance road. If the main entrance is affected, than the closed safe location outside the property fence will have to be determined; generally, that would be towards N W Naturals LNG plant or towards the river behind the pencil pitch storage buildings.

Supervisors shall account for all of their employees, notify the EC when they are "all clear" and relay further instructions. An alternate location will be designated and announced at the time of the incident if the Main office is not a safe check-in location.

### 4.8.5 Fire Suppression Systems

<u>Fire Hose and Hose Reels</u> are located at strategic points around the terminal. Employees must be familiar with ones within their work areas.

<u>Fire Extinguishers</u> are located throughout the plant and on rolling stock. CO-2 and ABC Dry Chemical types are used exclusively.

<u>Dry Fire Water Suppression</u> piping system is located at the ship unloading dock.

### 4.8.6 Civil Strife, Strike

Emergencies resulting from or shutdowns as a result of, civil strife or strike situations require the control of people entering the plant, both authorized and unauthorized. Local law enforcement agencies can be helpful in achieving this goal, but in-plant security is management's immediate concern. When a total shutdown is planned, and security measures are to be implemented, the following should be observed.

### **Boiler**

- Secure door locks.
- Follow established shutdown procedure.
- Assure that all steam line drains are open

### Hazardous Waste Storage Area

- Properly store all hazardous waste drums in the Boiler House.
- Lock doors.

### **Major Operations**

- Secure electrical panels.
- Turn off air compressors and shut valves.
- Store and secure portable tools, cords, hoses, etc.
- Clean up area for safety and fire protection.

### Rolling Stock

- Park centrally in area in front of shop.

### **Gates**

- Keep locked at all times.
- Put on new locks to prevent unauthorized entry.

### **Security Patrols**

- Security patrols will be made 24 hours per day.
- Communication will be maintained at all times between the patrols and the main office by radio.

### Lighting

- The plant has general yard lighting system consisting of flood lights, streetlights and incandescent lighting. Outdoor lighting in front of the main office is controlled by photocells.
- 4.9 Medical Emergency Plans

Emergency and first aid supplies are maintained at the following work locations:

Main Office (Main supply Center)
Control Room (Intermediate supply location)
Maintenance Shop (Intermediate supply location)

First aid supplies are intended for use on minor cuts, abrasions, and burns requiring simple care such as band-aids, disinfectant, or ointment. Supplies are also available for the immediate treatment of severe injuries while awaiting professional medical care, such as gauze pads, bandages, and splints.

Any First aid applied at the plant by plant employee's, is in no way intended to replace any needed medical attention, but only to help prior to receiving professional treatment.

If serious Injury occurs, assure that an ambulance is called immediately.

### 5.0 STORM WATER POLLUTION PREVENTION PLAN

### 5.1 General

This section of the Plan describes the pollution prevention procedures and facilities for this plant to minimize the impact of storm water runoff to the surrounding environment. This section specifically addresses the requirements of our Storm Water Industrial NPDES Permit.

### 5.2 Pollution Prevention Objectives and Process

All boiler blowdown water and storm water runoff is collected in our tank farm and is handled under the terms and conditions of our NPDES permit. No discharges are made unless they meet these terms and conditions.

### 6.0 TRAINING

All plant employees shall receive training on the content of this plan. Supervisors will each receive a copy and become thoroughly familiar with it through training, discussion, and self-study. Supervisors will train their employees in the overall plan and in the specific needs of their work areas.

Training will, at a minimum, include programs to ensure that facility personnel understand basic procedures for pollution prevention and good housekeeping and are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, as applicable to each employee's job function:

- Procedures for using, inspection, repairing, and replacing facility emergency and monitoring equipment;
- Communications and alarm systems;
- Response to fires or explosions;
- Response to ground water or surface water contamination
- Shutdown of operations;
- Methods for the safe handling of hazardous materials;
- Procedures for coordination with local emergency response organizations;

- Use and location of medical supplies;
- Use of emergency response equipment and supplies appropriate to work areas;
- Emergency response procedures and plans contained within this SPCC and Contingency Plan.

Refresher training will be provided at least annually. New employees will not work in unsupervised positions until they have completed all training required for those positions. Supervisors will provide training to their employees and management will assure that supervisors are properly trained.

Employees with specific additional job related training needs will also be given that training, such as hazardous waste handling training as required by RCRA and State regulations, hazardous waste operating procedures for fuel additive to the boiler, storm water pollution prevention, and waste water operations.

This training may be coordinated and take place concurrent with Hazard Communication and RCRA training. Safety meetings and annual updates.

# **Record of Revisions**

**Date** 

Reasons

October 22, 2004

Updated the tank list after cleaning project, updated equipment capabilities and updated other minor needs.

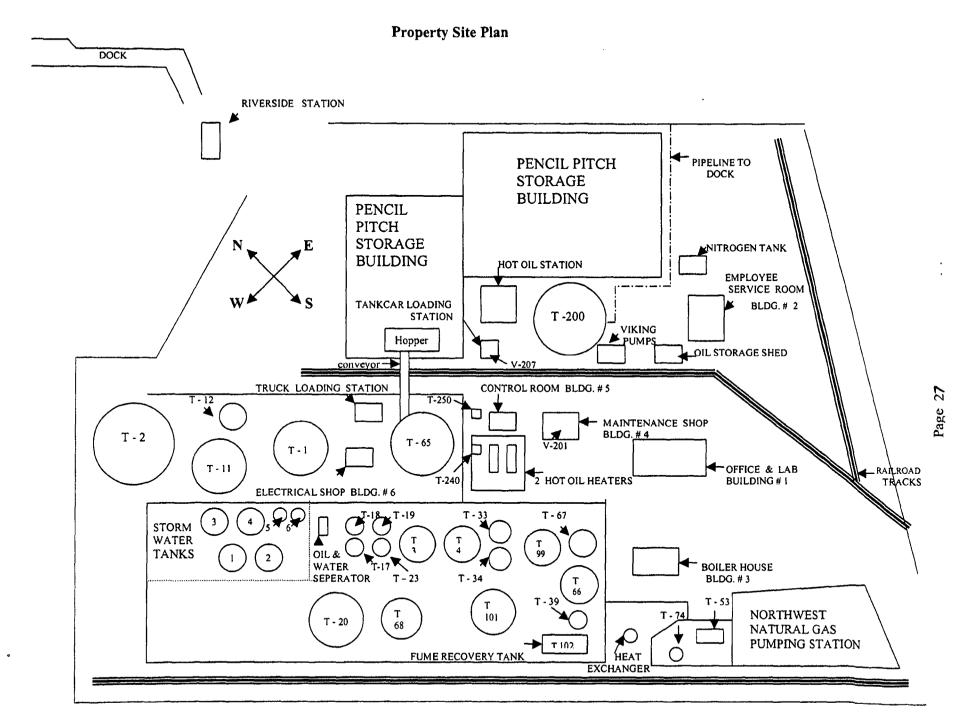
# **Plan Review Documentation form**

As required per CFR 112.5(b), I have reviewed this SPCC Plan and to the best of my knowledge, no changes or discharge incidents have occurred since the last review or certification which require amendment and recertification of this SPCC, as it exists, remains current and accurate.

Reviewer: T. J. Turner, General Foreman

gnature of Reviewer

Date





REVISION NUMBER: 1 EFFECTIVE DATE: 1/2/02 Al OF A8

WRITTEN BY

CSG

CONTROLLED DOCUMENT NUMBER:

APPROVED BY: Walter Turner Well Surner

KII-E-002

SUBJECT:

**Environmental Incident Communication** 

and Reporting Policy

SCOPE: All US Plants

### ATTACHMENT A

### **PURPOSE:**

The purpose of this policy is to ensure environmental incidents (as described in the "Policy" section below) are:

- acted upon, reported, and documented in accordance with applicable regulations, and
- communicated to appropriate agencies and corporate management in a timely manner.

### **BACKGROUND:**

Environmental regulations require that certain significant incidents, such as oil spills, chemical spills, and unpermitted discharges of hazardous material to the environment be reported to specified agencies. Failure to report such incidents to agencies in a timely manner can subject Koppers or its employees to substantial civil penalties, or if the failure to report is willful or negligent, to both civil and criminal penalties. It is important, therefore, that Koppers employees be aware of incident reporting requirements and that responsibilities and procedures for reporting incidents be clearly established.

Table 1 contains a list of reportable quantities (RQs) for Koppers products. Table 2 contains a list of RQs for commonly used materials. These are provided for reference in the event of a spill and to assist in determining if reporting to an agency is required. Plants will develop lists of the RQs for products on that facility which are not listed herein.

In addition, Koppers management has an interest in understanding the compliance status of its facilities and ensuring proper corrective action is taken in the event of non-compliance. Therefore, this policy covers a wide range of environmental incidents, as described in the "Policy" section.

### **RESPONSIBILITIES:**

The plant manager will:

- 1. Ensure the contingency/SPCC Plans for the facility are kept updated (minimum annually), that facility personnel are adequately trained and knowledgeable of the plan, and in the event of an incident, implement the plan.
- 2. Maintain a list of the RQs for all products on that facility not listed in this policy.
- 3. Ensure all environmental incidents are acted upon according to this policy, are communicated in a timely manner to corporate/division staff, to emergency response

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- personnel and appropriate reporting agencies (if required), and ensure follow-up reporting is completed in accordance with this policy.
- 4. Investigate environmental incidents, determine the root cause of the incident, and implement corrective action to prevent reoccurrence of a similar incident.
- 5. Ensure all spills, leaks and releases are recorded as follows:
  - Spills above the RQ: Complete KII-FORM-E-002 and forward it to the corporate environmental manager and division operations manager.
  - <u>Spills below the RO</u>: Maintain a log, as described in the "POLICY" section below.

The plant manager may delegate the duties listed above, but retains responsibility for their proper execution.

### **DEFINITIONS:**

The following environmental incidents are typical of those that must be reported.

- 1. Reportable Releases: A spill, leak, or un-permitted release:
  - Of oil, a refined petroleum product, or a hazardous substance or material of any
    quantity that enters a navigable waterway or a drainage pathway leading to a
    navigable waterway, could migrate to an adjacent property or waterway, or causes a
    film, sheen or discoloration;
  - Of a hazardous substance or material in the form of a vapor, gas, or emission to the
    ambient air, or a solid or liquid to the ground surface in a quantity equal to or greater
    than the CERCLA Reportable Quantity (RQ) (see attached tables for RQs of
    common materials managed at Koppers sites);
  - Of Koppers products or materials during transport from a Koppers facility to a customer; and
  - In Pennsylvania and Florida, of a hazardous substance or material of greater than 25 gallons to a containment area, structure or facility around an aboveground tank, or of greater than 5 gallons to a synthetic surface (asphalt or concrete), which prevents migration of the material to the environment.

### 2. Other Environmental Incidents:

 Discharge of a material in excess of the numerical limit allowed under a facility permit issued under the Clean Air Act, Clean Water Act, permit by rule, or other federal or state laws. An example is where a permitted concentration limit or mass loading limit is exceeded in a water discharge.

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Occurrences where specified conditions were not maintained as defined in a permit. An example is where a permit specified minimal pressure differential across a bag house filter is not maintained.

- Any malfunction of a pollution control device or monitor.
- Receipt of a notice of violation (NOV) or inspection report indicating compliance deficiencies.
- Any complaint regarding an environmental issue (odor, noise, etc.).

The above lists, although illustrative, are not exhaustive. Any incident that causes or could cause the release of hazardous materials or non-compliance with regulations will be reported in a timely manner to the corporate environmental manager, division operations manager, and regulatory authorities, as required.

### **POLICY:**

### 1. Action in the event of an environmental incident: The plant will:

- a. Take action to contain the spill, leak or un-permitted release and minimize risk of injury or property damage. This may include calling an emergency response contractor.
- b. Report as follows:

### (1) Releases in excess of the RQ:

- (a) Immediately to the National Response Center (NRC) and appropriate state and local authorities (as defined in the Contingency/SPCC Plan).
  - Contact a corporate environmental manager before (if possible) or as soon as possible after making the telephone report to the proper authorities.
  - For Koppers products in transportation, upon becoming aware of an incident, report the incident telephonically to the NRC and other required authorities (if a report has not already been made).
- (b) As soon as possible(via electronic mail or telephone) to:
  - Chief Executive Officer
  - Vice-President for Safety, Health, and Environmental Affairs
  - Division General Manager
  - Division operations manager
  - Corporate Environmental Manager

### (2) All other incidents:

- (a) To regulatory authorities, as required by permit or regulation
- (b) As soon as possible to:
  - Corporate environmental manager

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Division operations manager

c. Conduct a thorough investigation to determine the root cause of the incident.

d. Take corrective action to ensure the risk of reoccurrence of the incident is minimized. Include a summary of the incident and its root cause in the monthly report for the facility.

e. Develop written reports:

### (1) For spills in excess of the RQ:

- Complete an internal incident report (KII-FORM-E-002), and transmit it to the corporate environmental manager and division operations manager within 48 hours following the incident and file a copy at the plant.
- Update the SPCC/Contingency Plan to include notations describing the incident.
- Prepare a follow-up letter, summarizing the incident and response
  actions taken, for distribution to the proper agencies within 48 hours
  following the incident. This report will be reviewed by the corporate
  environmental manager prior to transmittal to any agency.

### (2) For spills not in excess of the RQ:

Maintain and update a log for recording information relating to incidents, spills, leaks and releases of material below the applicable RQ. Record the following information:

- the date of occurrence
- the root cause
- how the material was cleaned up
- actions taken to prevent reoccurrence
- 2. Press statements: Prior to release, all press statements regarding an environmental incident will be reviewed and approved by the division operations manager and the corporate environmental manager.

### **DISTRIBUTION:**

All SH&E Manual Holders

KII-E-002 Revision: 1 Effective Date: 1/2/02

Table 1
Reportable Quantities for Koppers Products

Commodity <sup>(1)</sup>	302 RQ (lbs) (2)	RQ (lbs)	RQ (gal)	WT %	Specific Gravity g/cc (3)	Lb/gal	Limiting constituent (4)
Crude Coke Oven Tar	1	1.10	13	0.905	1.05	8.747	Benzo(a)pyrene
Refined Chemical Oil	100	167	19	59.95	1.04	8.663	Naphthalene
Creosote (P1/P13)	ı	1	0.1	100	1.06	8.830	Creosote
Creosote Solution (P2)	1	· Linear	0.1	100	1.06	8.830	Creosote
Coal Tar Pitch - Liquid	1	74	7 "参溪"	1.35	1.3	10.829	Benzo(a)pyrene
Coal Tar Pitch - Pencil	1	74 -	"	1.35	1.3	10.829	Benzo(a)pyrene
Carbon Black Base No. 1	1	161	17 🔅	0.62	1.13	9.413	Benzo(a)pyrene
Pavement Sealer Base	1	104	11	0.96	1.1	9.163	Benzo(a)pyrene
Modified Pavement Sealer Base	1	99>>	12	1.01	1.01	8.413	Benzo(a)pyrene
Sodium Cresylate	100	244	24	41	1.2	9.996	Cresols
Solvent Grade Coal Tar Naphtha	10	1000	124	1	0.97	8.080	Benzene
Unwashed Coal Tar Naphtha	10	1000	121	1	0.99	8.247	Benzene
Crude Methylnaphthalene Fraction	100	1000	119	10	1.01	8.413	Acenaphthene
Methylnaphthalene Fraction #2	100	714	83	14	1.03	8.580	Acenaphthene
Naphthalene Still Residue	1	263	29	0.38	1.08	8.996	Benzo(a)pyrene
78° Crude Naphthalene	100	100	12	100	1.015	8.455	Naphthalene
80° Refined Naphthalene	100	100	12 ix.	100	1.015	8.455	Naphthalene
Topped Tar	1	100	11 %	1	1.1	9.163	Benzo(a)pyrene
Methylnaphthalene Fraction	100	1000	119	10	1.01	8.413	Acenaphthene
Crude Crystal Free Neutral Oil	10	500	60	2	1	8.330	Benzene
Crude LBTB Low Boiling Crude Bases	10	1250	150	0.8	1	8.330	Benzene
Bottom of Column Oil (BOC)	100	714.	83	14	1.03	8.580	Acenaphthene
Pitch Low Volatility 160	1	128	12	0.78	1.32	10.996	Benzo(a)pyrene
Pitch Low Volatility 180	1	233	21	0.43	1.32	10.996	Benzo(a)pyrene
Pitch Low Volatility 200	1	500	45	0.2	1.32	10.996	Benzo(a)pyrene
Pitch Low Volatility 225	1	1111	101	0.09	1.32	10.996	Benzo(a)pyrene
Phthalic Anhydride - Flake	5000	:5051	496	99	1.22	10.177	PAA
Phthalic Anhydride - Molten	5000	5000	4915	100	1.53	10.177	PAA

- (1) Any amount of these substances entering water within a stream or river, or migrating onto an adjacent property is reportable. Substances entering a storm water ditch and having the potential to reach a stream or river may be reportable. A Corporate Environmental Manager should be contacted for guidance when these circumstances exist.
- (2) Amounts were taken from 40 CFR Table 302.4 for the Limiting Constituent noted.
- (3) Values are for the applicable Commodity.
- (4) The hazardous constituent (of all constituents contained in the listed commodity) from which the RQ for the commodity is defined.

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Table 2
Reportable Quantities (RQ's) for Common Materials

Ass. Sa		
	4 or 10 (2)	
	0.2 or 1.6 (3)	
	0.125	
	State and Local	Call Corporate
	Regulations (4)	Environmental Manager
3 3	0.2(5)	A 2
1	0.2 (5)	
1 1		
107	0.1 (*)	If material contains
		Creosote, RQ for Creosote Waste applies.
Based on the PO fo	or the hazardone	May include, among other
		wastes, boiler and process
		water treatment chemical
		wastes, see MSDS
	c lowest RQ	information
	10	May include, among other
100	10	wastes, boiler and process
		wastes, boner and process
		wastes, see MSDS
	•	information
	Based on the RQ for constituent, or if m multiple hazardous	State and Local Regulations (4)  1 (5)  0.2 (5)  1 (5)  0.1 (5)  1 (5)  0.1 (5)  1 (5)  0.1 (5)  0.1 (5)  0.1 (5)  0.1 (5)  0.1 (5)  0.1 (5)

- (1) Any amount of these substances entering water within a stream or river, or migrating onto an adjacent property is reportable. Substances entering a storm water ditch and having the potential to reach a stream or river may be reportable. A Corporate Environmental Manager should be contacted for guidance when these circumstances exist.
- (2) Use the lower RQ amount for concentrated unmixed (40%) pentachlorophenol in diesel oil solution; the higher RQ amount should be used for any mixed (10% or less) pentachlorophenol in diesel oil solution. Applicable state and local regulations for diesel oil should be evaluated.
- (3) Use the lower RQ amount for concentrated unmixed 50% or 60% CCA solutions; the higher RQ amount should be used for mixed (6% or less) CCA solutions.
- (4) If the material has not entered a drainage way, or under the given circumstances does not have the potential to migrate to an adjacent property or waterway, the Corporate Environmental Manager should be contacted immediately to assist in determining if the release is reportable to applicable agencies based on state and local regulations that may apply. The SPCC Plan should also be reviewed for additional information relating to a release of these materials. See Note (1) above.
- (5) This quantity applies, regardless of concentration.
- (6) See 40 CFR Table 302.4 for the constituent(s) for which the characteristic of Toxicity is based. The RQ applies to the waste itself, not merely the toxic contaminant contained in the waste. The Environmental Manager at CSG should be contacted for guidance.

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KC ND	PPERS				ENVIRONMEN <sup>-</sup>	TAL INCIDENT REPOR
FAC	CILITY:				<del></del>	
DAT	E OF INCIDENT:			-		
TIM	E OF INCIDENT:		-	- -		
			INCID	ENT		
	Note: IMMEDIATEL	Y MAKE NOTIFICA	TIONS TO	NRC, STAT	E, LOCAL & KII (AS APF	PLICABLE)
Туре	of incident (check all that apply):		<u> </u>			
	Spill, leak or un-permitted re		rdous		Complaints of any kind (	e a odor noise etc.)
$\vdash$	material to the air, ground, or Permit limit exceedance or		anacified	<b> </b>	<b>.</b>	
	conditions in a permit were		specified	}	device or monitor, etc.	ction of a pollution control
	Spill or leak of a liquid or so	olid that is contained		<u> </u>	1	
L	process pad or by other se	condary containmer	nt	j		
_oca	ation of Incident:					
Desc	cription of Incident:	<del></del>	···			
	erials involved:			····	·····	
nate	illais illvoiveu.	Ought	ita	Γ	Exceeded RQ?	Media Affected
	Material/Constituent	Quant Releas		RQ	(Y/N)	(soit, water, air)
Γ						
Γ	•					
				J		
lotii	fication Log:					
Г	Agency	Phone No.	Date	Time	Name of Contact	Notes
Г						
卜		<del> </del>				
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L			<u> </u>	<u> </u>		
Asse	essment of actual or potential hazar	ds to human healt	n or the en	vironment:		

Form: KII-FORM-E-002 (1/2/02) To be used with policy KII-E-002 Page A7

KOPPERS INDUSTRIES		ENVIRONMENTAL INCIDENT REPORT
	INVESTIGATION:	
Acts or conditions causing incident (root cause):		
	CORRECTIVE ACTIO	N
Containment and cleanup actions:		
Disposition of recovered material:		
Material	Quantity	Disposal or Storage Location
Corrective action (describe what has been done or very second or the second of the sec	AL INFORMATION/RECOM	
AGENCY CONTACT DUE TO	THIS INCIDENT (Agency	Inspector, Agency issuing NOV):
Include date, time, name, title, agency and summary	of inspection/visit:	
Indicate whether the plant's SPCC Plan was reviewed Yes No	ed and updated as required If no, explain:	with information relating to this incident.
Attach photographs (if available) which show the in each photo.  # Photos	cident area before, and afte	r response action. Mark date and time of
Report completed by:  Name:  Title:	Date:	Attach continuation sheets as necessary
PLEASE FAX OR SEND THIS FO	ORM TO THE KOPPERS	S ENVIRONMENTAL DEPARTMENT

Form: KII-ENV-002 (1/2/02)

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# CONTINGENCY, SPCC AND POLLUTION PREVENTION PLAN

KOPPERS INDUSTRIES, INC.

NORTHWEST TERMINAL

PORTLAND, OR

CONTINGENCY PLAN, SPILL PREVENTION, CONTROL, AND COUNTERMEASURES (SPCC) PLAN AND STORM WATER POLLUTION PREVENTION PLAN KOPPERS INDUSTRIES, INC. **NORTHWEST TERMINAL** 7540 NW Saint Helens Rd. PORTLAND, OR 97210-3663 **FEBRUARY 24, 2000** 

### **CERTIFICATION**

I here by certify that I have inspected the subject facility, and being familiar with the provisions of 40 CFR 112 for SPCC requirements and 40 CFR 122 for Storm Water Pollution Prevention requirements, attest that this Plan has been prepared in accordance with good engineering practices.

William A. Meisinger, P.E. Manager of Engineering

PENNA. # PE-038022-E

Date: 2-24-00

MANAGEMENT APPROVAL

This SPCC Man will be implemented as herein described.

Kamerer\_

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### 1.0 INTRODUCTION

This plan has been developed to; a) provide a basis for planning for and responding to potential spills, accidents, fires, or other contingencies and b) describe and implement practices to minimize and control pollutants in storm water discharges and ensure discharge permit compliance. It includes the requirements for the Contingency Plan as required by the Resources Conservation and Recovery Act (RCRA), the Spill Prevention, Control and Countermeasures (SPCC) Plan and Storm Water Pollution Prevention Plan (SWPPP) of the Clean Water Act, and the inventory reporting requirements of the Emergency Planning and Community Right-to Know Act (SARA Title III).

Questions concerning this plan may be directed to:

Amos S. Kamerer Plant Manager (503) 286-3681

T.J. Turner General Foreman (503) 286-3681

### 1.1 FACILITY LOCATION

The Northwest Terminal is located in Multnomah County in the city of Portland, OR. The terminal is located on approximately 6.4 acres of leased property. The property owner is the N W Natural, 220 NW 2<sup>nd</sup>. Ave., Portland, OR, 97209. The portion of the property that Koppers Industries leases is addressed as 7540 NW Saint Helens Rd., Portland, OR, 97210. The property is bounded by Saint Helens Road (Oregon State Highway 30) on the south, the N W Natural property extending to the shore of the Willamette River on the north. The N W Natural liquefied natural gas plant on the west. The south end of NW Front Ave. separates Koppers property from Wacker Siltronic Corporation, on the eastern boundary. 11 people are employed at the terminal (4 salaried people, 7 hourly people). Normal operating hours are from 4:00 p.m. on Sundays through 4:00 p.m. on Fridays. Generally, the plant is closed on the weekends.

### 1.2 OPERATION

Coal tar pitch is imported via bulk and/or liquid cargo vessels. This product is then stored at the terminal, prior to the distribution to our customers. Outbound shipments are made via tank truck or tank cars.

All products and/or chemicals used or handled through the terminal are covered by material safety data sheets, which are on file. All employees have been trained on the usage of these materials and educated in the proper manner of reading and understanding of the material safety data sheets. This training is mandatory and retraining is given annually.

### 1.3 COORDINATED EMERGENCY SERVICES

This plan is written to facilitate the quick and efficient coordination of emergency response actions between Koppers Industries, Inc. (Koppers) and any emergency response companies or agencies, which may be needed. Copies of this plan, and updates, are provide to the following:

Oregon, Department of Environmental Quality

Portland Fire Department

City of Portland, Bureau of Environmental Services

**US Coast Guard** 

Plant Supervisors and Employee's

Instructions on how and when to obtain assistance for emergency situations including agency and contractor phone numbers are included in this plan.

### 1.4 SPCC AND SWPPP PLAN MAINTENANCE

This Plan must be kept up to date. Notify Koppers' Environmental Program Manager in the event of any changes made. Automatic review, evaluation and recertification by a Professional Engineer is required once every three years from the date of the latest certification. This Plan must also be amended whenever there is a change in design, construction, operation or maintenance which materially affects the facility's potential for discharge, and the amendment fully implemented as soon as possible and no later than within six months.

A copy of this Plan is to be maintained in the plant's main office and the plants control room.

Notify the Environmental Program manager if any amendment needs to be made to this Plan.

### 2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

### 2.1 Discussion

Various materials used at the Koppers facility are considered hazardous based on the toxicity or flammability of those materials. These include coal tar distillate, coal tar pitch, boiler water treatment chemicals, fuel, heat transfer oil and lubricants for plant vehicles and equipment.

### 2.2 **Business Information and Identification**

The following information applies to the Koppers Industries Northwest Terminal:

Business Name:

Koppers Industries, Inc.

**Business Phone:** 

(503) 286-3681

**Business Fax:** 

(503) 285-2831

Owner:

Koppers Industries, Inc.

436 Seventh Ave. Pittsburgh, PA 15219

Operator:

Same as owner

SIC Code:

2865

EPA ID Number:

ORD 027734359

Site Address:

7540 NW Saint Helens Road

Portland, OR 97210

Mail Address:

Same as above

Type of Business:

Coal Tar Pitch Terminal

### 2.3 **Emergency Contacts/ Emergency Coordinators**

Name/Address

Amos S. Kamerer, Plant Manager 5912 Knightsbridge Drive

Portland, OR 97219

Home Phone

Cellular Phone (503) 705-8748

T.J. Turner, General Forman 17815 NE 152<sup>nd</sup>. Ave.

Bush Prairie, WA 98606

Home Phone

Cellular Phone (503) 705-9507

The above people can normally be reached during work hours at the business phone number, (503) 286-3681. Additionally, the night shift operator, when there is a night shift during the normal 5 day work week, can be reached at (503) 286-3682 or cellular phone at (503) 250-0672.

The plant manager is the Primary Emergency Coordinator and should be contacted first. If he is not available, the others should be called, in the order listed, until someone is reached. The Primary Emergency Coordinator and alternates have complete authority to commit all necessary resources of the company in the event of an emergency.

During off shifts, the shift operator will notify the Emergency Coordinator (above) who will assume responsibility for implementation upon his arrival at the terminal. Also, on weekends and holidays when there is no shift work occurring, the terminal is patrolled by NW Natural's Pinkerton Security guards who make rounds through the terminal, hourly. The guards have been provided with a list of emergency phone numbers to call in case of a problem.

Phone numbers for Koppers Industries Corporate Contacts are provided on Page 14.

### 2.4 Hazardous Materials Inventory

The products used, or stored on the Koppers facility are listed by tank number in, Table 3.7. (Tank Listings Table) and is found on page 11. These tank's are also shown by number on the site map, found on page 26. All other buildings and structures are also shown on the site map.

### 3.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURES

### 3.1 Description

This section of the Plan provides information specific to the storage and handling of hazardous liquids, spill prevention and containment equipment, and countermeasures to be implemented to control the impact of a spill. The Tank Listings Table, Table 3.11, lists all the tanks at the Koppers terminal by number, along with contents and the tank capacities. The location of these can be found on the site map, on page 26.

### 3.2 Conformance with SPCC Standards and Guidelines

This facility meets the minimum requirements for diversionary structures and equipment to prevent discharged oil or hazardous substances from reaching navigable waters as required by 40 CFR 112.7© by providing secondary containment for all major tanks and process equipment.

The Northwest terminal is in conformance with the applicable guidelines of 40 CFR 112.7 ©. Rainwater is collected, stored and then tested prior to discharge, all in accordance with our NPDES permit requirements. Tank installations are equipped with secondary containment and are regularly inspected by operators. Spill prevention details for equipment and processes are discussed more fully below.

### 3.3 Inspections and Security

All operational areas in the plant are checked every 2 hours by the operator that is on duty, through out each shift. Any problems or unusual circumstances which can not be immediately resolved are reported to the Supervisor.

### 3.4 General Plant Spill Prevention

A hazardous material spill can occur any place, any time. All employees are prepared to respond immediately to control the situation and to notify management. Containing a spill to the smallest area possible is the first step.

Containment can quickly be constructed using available equipment and supplies; usually by placing dirt, sand, or available absorbent pads or absorbent containment booms around the lower side of a spill. If possible, a spill will be prevented from reaching the surface water drainage where it can spread more rapidly and have greater environmental and health impact.

Loading operations are supervised by employees familiar with the equipment involved. Buckets and/or pans are placed under hose connections to collect drips. The employees are trained to always be prepared that hoses and/or pipelines can be full of product and to take extra care when disconnecting hoses. Properly, and promptly cleanup any drips or spills. Supervisors must be notified of any spills that are outside of the containment areas. Collected materials will be returned to the processes or will be properly containerized for disposal.

### 3.5 Surface Drainage

The terminal property is at 37' above sea level and our out-fall for pumping off the collected storm runoff is located on the very southeastern tip of the property, at approximately a 10 ft elevation above a creek that flows to the Willamette River.

In the Northwest terminal there are two run-off patterns for site drainage. The first is directly in front of the office and away from any pitch handling areas. This area would not be threatened by a spill. All other run-off areas from the plant feed into the tank farm and then into a concrete collection sump. Dual sump pumps (one operation and one standby) lift the run-off into the storm water storage tanks #1, #2, #3, #4, #5, and #6. When these tanks fill, they are sampled and the samples are taken to an Oregon Department of Environmental Quality approved laboratory for analysis in accordance with our NPDES permit. When the laboratory reports that the test results are within the parameters allowed in the NPDES permit, the water is pumped to the out-fall referenced above.

Equipment, including secondary spill containment, has been installed and procedures implemented to prevent oil or hazardous materials from leaving the plant. A spill is most likely to occur in the process area, where it can be contained.

Koppers has installed extensive paving at the coal tar distillate tank car heat exchanger unloading station, including paving between the rail tracks and the loading area for trucks. In addition, a below grade sealed concrete sump was installed as a catch basin. This catch basin has approximately 1500-gallon capacity. Also two-sump pumps have been installed. The first pump is automatically activated and pumps collected storm water into the tank farm storm water run-off, collection system for further handling.

The second pump is energized only when unloading coal tar distillate rail cars. This pump is on a float activated switch and is piped to #39 tank, which is now designated as the emergency response tank at this location. Tank #39 is of sufficient capacity to hold the gallonage of a full tank car or 20,000 gallons. It is the duty of the loading/unloading employee to clear the catch basin of water, then open the valve to tank #39 and energize the automatic pump. In this way, should a creosote spill occur, all precautions are in place to contain the release.

In the case of a spill in which hazardous materials or oils reach any of the drainage ditches, immediate action must be taken to contain the spill. Temporary earth dams should be constructed using plant equipment along the ditches, creating a series of impoundments to contain the flow. Sorbent booms may be used to remove containments from the water held behind the dams, is needed.

These dams can only hold back a limited amount of water, so emergency help should be contacted at the first sign that such a spill has occurred or may occur.

### 3.6 Tank Car Unloading

Tank cars are unloaded at the unloading station, where the process transfer pipelines are all above ground. The potential spill sources in this area include leaks from the process tanks, valves, pumps, and pipe systems. These leaks can best be prevented by proper valve and pump maintenance and equipment inspection during material transfers. Any leaks or drips must be cleaned up immediately.

As part of the operation procedures, drains and outlets on tank trucks and tank cars are checked for leakage before and after each loading and unloading operation. Operations personnel performing loading and unloading activities are instructed to inspect piping and pumps associated with these activities and to report spills or leakage.

The driver performs a visual inspection of the truck and trailer after each loading and if repairs are needed the truck is shopped for repairs.

The operating procedures included in this plan form the basis for the training of operations personnel in the prevention of coal tar distillate or coal tar pitch discharges. Job positions within the Northwest terminal require that new personnel, working in unfamiliar process areas will have a senior experienced employee to guide them. Personnel are also instructed in the operation and maintenance of equipment to prevent discharges.

### 3.7 Vessel Unloading

As of December 1999 a project was completed which gives this facility the capability of unloading liquid coal tar pitch vessels at the GASCO dock, directly to a new storage tank T-200. The unloading is accomplished through a pipeline that runs from the GASCO dock on the Willamette River to tank T-200. The liquid coal tar pitch is unloaded at an elevated temperature of approximately 400 degrees F. To maintain the liquid pitch at these temperatures there is a companion line that is attached to the outside of the unloading line, with a heat transfer oil running through it to provide the maintenance heat that is required. There is containment on the GASCO dock, at the end of the pipeline, should a release occur. In an effort to minimize the impact of such a release, a leak detection monitoring system has been installed on the heat transfer oil lines, which will automatically shut off the flow of the heat transfer oil, to and from the dock. There is curbed containment at the on shore leak detection monitoring station; and also around the tank T-200 area, should a release occur at either location.

The discharges of our liquid coal tar pitch vessels, at the GASCO dock, will be handled through a contract for the tankermen services, with Pacific Terminal Services, Inc.(PTSI). PTSI has amended their operating authority letter with the U. S. Coast Guard, their Oil Spill Contingency Plan, and their Operating Manual, to reflect the addition of the handling our liquid coal tar pitch.

### 3.8 Tank Farm

The concrete-wall-lined and earth-diked tank farm has a total containment capacity of approximately 2,900,000 gallons. Operators regularly walk and inspect this area, checking for corrosion, leaks or stains, or anything out of the ordinary. They also do any housekeeping, as necessary.

Table 3.8
TANK LISTING TABLE
Koppers Industries, Northwest Plant

Tank No.	Current use	Last contained	Capacity (000)
1.	SW Surge	Crude Tar	660 M
2.	SW Surge	Crude Tar	1065 M
3.	SW Surge	Methyl Solvent	99 M
4.	SW Surge	Lt. Uncorrected Creosote	99 M
11.	SW Surge	Creosote	254 M
12.	SW Surge	Unknown	57 M
17.	SW Surge	Heavy Oil	20 M
18.	SW Surge	NSR Oil	20 M
19.	SW Surge	P & R Oil	20 M
20.	SW Surge	Creosote	317 M
23.	SW Surge	Lt. Uncorrected Creosote	20 M
33.	Heavy Oil	Heavy Oil	45 M
34.	SW Surge	NSR Oil .	45 M
39.	SW Surge	Creosote	20 M
53.	SW Surge	Creosote	10 M
65.	Liquid Pitch	Heavy Oil	761 M
66.	SW Surge	Creosote	191 M
67.	Heavy Oil	Heavy Oil	102 M
68.	Liquid Pitch	Liquid Pitch	248 M
74.	SW Surge	Creosote	20 M
99.	SW Surge	Creosote	209 M
101.	SW Surge	Creosote	759 M
102.	Fume Tank	Heavy Oil	9.3 M
200	Liquid Pitch	Liquid Pitch	2100 M
V201	SW Surge	Liquid Pitch	19 M
V207	SW Surge	Liquid Pitch	19 M
240	Heat Transfer Oil	Heat Transfer Oil	2 M
250	Heat Transfer Oil	Heat Transfer Oil	2 M
SW #1	Storm Water (SW)		45 M
SW #2	Storm Water (SW)		45 M
SW #3	Storm Water (SW)		45 M
SW #4	Storm Water (SW)		45 M
SW #5	Storm Water (SW)		20 M
SW #6	Storm Water (SW)		20 M

### 3.9 Fuel and Lubrication Oil

Lubricating Oil is stored in 55-gallon drums, most of which are stored in the oil house building. Drums are stored upright and kept sealed. Dispensing areas are kept clean. Oil drippage is contained. Any minor spills are contained and cleaned up immediately.

### 3.10 Hazardous Waste Storage Facilities

Hazardous waste is placed in drums when generated. Full drums are stored in the drum storage area adjacent to the track 5 heating station. The drum or drums are then disposed of through RCRA approved facilities, within less than 90 days.

### 4.0 EMERGENCY RESPONSE PROCEDURES

### 4.1 General

This section of the Plan describes the actions that are to be taken by Koppers personnel in response to any injury, accident, fire explosion, or unplanned release of any hazardous material to the air, soil, or water.

### 4.2 Emergency Coordination

As soon as an employee discovers an emergency situation, that person shall quickly estimate the extent of the problem, take safe and appropriate control action, and then notify the terminal management immediately. Per the list in Section 2.3 page 7, the operator, who is present will assume the responsibilities of <u>Emergency Coordinator</u> (EC). Other personnel will respond as directed by the EC as needed.

The EC has Koppers Industries' authority to commit plant employees and contract labor and equipment, or to purchase supplies as needed.

Effective communication is vital in any emergency response. All terminal employees have portable two-way radios, which will be used for communication and coordination between the plant offices and yard areas. Phones may also be used between offices.

### 4.3 Immediate Response

As soon as an employee discovers an emergency situation, he should quickly determine the extent of the problem. If a simple action can be taken to control the situation, such as shutting a valve to stop the flow from a ruptured pipe and can be done safely, then the control action should be completed first. If there is no simple safe control action, or after taking such action, the operator shall immediately notify the terminal management and any other personnel who may be endangered by the incident, by phone or radio.

### 4.4 Response Procedures

- 4.4.1 Upon discovery or notification that an emergency exists, the EC shall:
- Determine the extent of the emergency.
- Implement plant evacuation, if needed, to prevent injury.
- Call for outside assistance as needed.
- Start immediate control actions.
- Implement cleanup or other responses.
- Notify local, state, and federal agencies as required.
- Notify Koppers Pittsburgh Office.
- Assure completion of cleanup.
- Provide for storage of cleanup material, including hazardous waste.
- Evaluate possible hazards to human health or environment.
- Make a final written incident report.
- Make other notifications as stated in Section 3.5, Emergency Notifications.

Many of these actions may occur concurrently.

- 4.4.2 Whenever there is a release, fire, or explosion, the emergency coordinator should immediately identify the character, exact source, the amount, and area affected by the incident. This may be done by observation, or review of facility records, or manifests and if necessary, by chemical analysis. Form 4.5.5, pages 17 20, should be used to document the information needed for notifications.
- 4.4.3 Concurrently, the Emergency Coordinator shall assess possible hazard to human health or the environment that may result from the release, fire, or explosion. This assessment shall consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any hazardous or asphyxiating gases that are generated or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).
- 4.4.4 If the Emergency Coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, <u>outside of the facility</u>, or if the released amount or hazardous or extremely hazardous material exceeds the

Reportable Quantity (RQ). These findings shall be immediately reported to the National Response Center as in Section 4.5, Emergency Notifications.

**Note:** That the reportable quantities for materials are listed in Section 4.5.

If his assessment indicates that evacuation of local areas <u>may</u> be advisable, appropriate local authorities shall be notified immediately. The Emergency Coordinator shall be available to help appropriate officials decide whether local areas should be evacuated.

- 4.4.5 During an emergency, the Emergency Coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes or materials at the plant. These measures could include turning water sprays onto tanks, stopping and isolating processes, shutting off power to areas, collecting and containing released materials, or moving and isolating other containers.
- 4.4.6 If some or all operations are stopped in response to an emergency, the emergency coordinator shall monitor tanks, pipes, valves, and other process equipment for leaks, pressure build-up or ruptures wherever appropriate.
- 4.4.7 Immediately after an emergency, the Emergency Coordinator shall provide for treating, storing, or disposing of recovered materials or wastes, contaminated soil, surface water, or any other material that results from a release, fire or explosion.
  - 4.4.8 Before resuming operations, the Emergency Coordinator shall:
  - a. Insure that clean-up is complete to the point that operations will not interfere or create further potential for hazardous waste release.
  - b. Insure that all emergency equipment is cleaned and fit for use.
  - c. If hazardous wastes or a hazardous waste unit has been involved, then advise the Dept. of Environmental Quality and EPA region X that Steps a and b above are complete.
- 4.4.9 If hazardous wastes or the hazardous waste unit has been involved, the Emergency Coordinator shall submit a written report as requested by the Dept. of Environmental Quality. A copy of the completed report shall be maintained in the Operating Record.
  - 4.5 Emergency Notifications

4.5.1 The Emergency Coordinator shall ensure that the necessary notifications are made. Form 4.5.5 entitled, "Emergency and/or Hazardous Materials Incident Report" is to be used. Page one is organized to provide all of the information needed for the initial verbal notification of the National Response Center of other agencies. As soon as a spill or other incident is discovered, the supervisor/manager who will do the reporting should begin filling in the information.

Page 2 should be used as a log of notification made. Get the position and name of the person who accepts the phone notifications. Also, if an incident number is assigned, as by the National Response Center, that number should be recorded. As more is learned about the incident, the report should be updated. Updates can be recorded on page 2 as well.

Pages 1,2, and 3, competed either by hand or typed, can be used for the required written notification of agencies. These should be sent with cover litters showing everyone who will get copies. Copies must be kept in the plant's Operating Record.

Finally, page 4 should be used for Koppers Industries internal reporting of additional related information. KII has an obligation to report all spills, which could possibly, impact over-all cleanup work. The complete report, Pages 1,2,3, and 4 should be sent to the Environmental Program Manager including original photographs. He will provide the required notification to Beazer East. Inc.

4.5.2 What spills or incidents must be reported and to whom?

The following is a summary. Note that more than one category may apply.

### If outside help is needed. IMMEDIATELY:

Call fire and/or other appropriate emergency agencies describe incident and needed assistance, such as fire suppression, medical aid, evacuation and/or crowd control.

If a release or threatened release of hazardous material: OR

If a health threat or release outside of facility: OR

If the release results in or has the potential to cause an oil sheen on or discoloration of runoff water:

Call 911 for immediate help. If the release involved a Reportable Quantity (RQ) then call both the Oregon Emergency Management Office at 1-800-424-8802 and the National Response Center at 1-800-424-8802.

Such releases that cannot be recovered must also be included in the SARA Title III annual reports.

If the release results in or has the potential to reach the City Storm or Sanitary Sewer drains, IMMEDIATELY:

Call the Duty Officer at 823-7180

If hazardous waste or a hazardous waste unit is involved OR if the plant contingency plan is implemented: IMMEDIATELY AND NOT LATER THAN 24 HOURS:

Call the Oregon Emergency Management Office at 1-800-452-0311

AND, Within 15 days

Submit a written report of the incident to them at:

595 Cottage Street. N.E. Salem, Oregon 97310

If the release impacts the waters of the United States, a written report must also be sent to the EPA, as follows: Environmental Protection Agency

Director, Region X 1200 Sixth Avenue Seattle, Wash. 98101

If injuries result in 3 or more people being hospitalized or 1 or more person killed, IMMEDIATELY:

Call the US Occupational Safety and Health Administration or authorized state OSHA agency WITHIN 8 HOURS!

In all cases, as soon as the emergency situation allows, Koppers management in Pittsburgh shall be called. Follow the guidance contained in "Internal Emergency Notification Procedures" for Koppers Industries, Inc. At least one of the following contacts in Pittsburgh shall be notified:

Name, Position	Work Phone	Home Phone	Cellular Phone
Traci Self, Mgr. Environmental Compliance	412/227-2883		412/913-9358
Mike Juba, Mgr. Health & Safety	412/227-2882		412/897-8407
Randy Collins, Mgr. Loss Control	412/227-2456		412/551-4554

# Form 4.5.3

# EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

OWNER/OPERATOR:	Koppers Indu	•	
Plant Name:	Northwest Ter		
Street Address:		int Helens Road.	
City/State/Zip:	Portland, Or 9		
Phone:	(503) 286-368		
EPA ID#:	ORD 0267734	4359	
FACILITY:	Same as above	e	
DATE OF INCIDENT:		TIME OF INCID	ENT:
TYPE OF INCIDENT: (circle one)		Hazardous Material Spill e Spill, Injury Accident	,
Other:		·	
MATERIAL INVOLVE	D:		
Name		Quantity	Media (soil, water, etc.)
•	_		·
	<u> </u>		· · · · · · · · · · · · · · · · · · ·
EXTENT OF INJURIES	S, IF ANY:	:	

DISPOSITION <u>Material</u>	OF RECOVERED MATERIAL: <u>Quantity</u>	How Disposed or Stored	
	Form	4.5.3	

EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

# NOTIFICATION LOG:

Agency	Phone No.	Name of Person	Date/Time Notified				
Portland Fire Dept.	911		-				
Oregon Emergency N	/anagement 1-800-452-0311		<del></del>				
National Response C	enter 1-800-424-8802						
Oregon OSHA	229-5910						
City Duty Officer 823-7180  (For Storm, Sewer, Drain Contamination, only)							
Northwest Natural	224-3532						
Wacker Siltronics	243-2020		<del> </del>				
Security for FAB #1 Ext. 7420							

Secu	urity for FAB #2 Ext.	. 4300				<u>.</u>	
Fuel & Marine Marketing, LLC							
	EMERGEN	CY AND/OR	rm 4.5.3 HAZARDO NT REPOR	OUS MATERI T	ALS		
Manager of	Environmental Comp	liance, Traci	Self				
Office Home Cellular	412-227-2883 412-247-5515 412-913-9358						
ADDITION needed):	NAL DESCRIPTION	OF INCID	ENT AND	ACTIONS	ΓAKEN (Attac	h page if	
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		***************************************					

REPORT BY (Name):	DATE
REPORT REVISED:	DATE
REPORT REVISED:	DATE
Table 4.5.3 EMERGENCY AND/OR HAZARDOUS INCIDENT REPORT	S MATERIALS
SUPPLEMENTAL INFORMATION REPORT (This part of the report is intended for KII internal use only.)	•
CLEARLY DESCRIBE HOW INCIDENT OCCURRED:	
WHAT ACTS OR CONDITIONS MOST DIRECTLY CAUS	ED THE INCIDENT:
· · · · · · · · · · · · · · · · · · ·	
DESCRIBE ANY RESIDUAL CONTAMINATION OR IMPA	ACT:

ATTACH PHOTOGRAPHS WHICH SHOW INCIDENT AREA, BEFORE AND AFTER RESPONSE ACTIONS. MARK DATE ON PHOTOS. ATTACH ADDITIONAL SHEETS AS NEEDED TO DESCRIBE INCIDENT AND THE RESPONSE ACTIONS TAKEN.

# 4.6 Available Equipment

The following equipment is available at the plant:

EQUIPMENT STORAGE LOCATION
Front-end loaders 2 in the pitch storage building

and 1 outside the shop.

1 Pickup Truck Office parking lot

Absorbent Pads and Booms Various Emergency Response Cabinets

Lift Truck Shop area Portable Pump Shop area

Sand Along the wall, to the West of the boiler house

The above equipment can be effectively used to control and clean a spill of oil, hazardous material, or hazardous waste. Trucks and tractors can be used to transport and place soil for containment dams, absorbing spilled liquid, and contaminated soil from cleanup actions. Pumps can be used to pump spilled liquid back into containments. After response action is complete, equipment should be placed on the drip pad or vehicle wash pad and be decontaminated with the steam cleaner prior to being released from the response.

#### 4.7 Emergency Response Contract Service

Koppers has a Corporate Agreement with IT Corporation to provide for any environmental services in the event of an emergency. IT Corporation can be reached 24 hours per day at # 1-800-537-9540. Ask for the "EMERGENCY RESPONSE MANAGER". IT Corporation is to provide notification within 30 minutes after receipt of the emergency call, of its acceptance of the work and their expected response time.

#### 4.8 Fire and Disaster Response Plans

4.8.1 This section of the Plan provides additional information on specific response actions to be taken in the event of a major disaster, emergency, or other disruption. Such an event could include:

- Fire or explosion
- Earthquake
- Strike or civil strife
- 4.8.2 Fire disasters can occur anywhere in the plant environment, so all

employees should be knowledgeable as to the proper method for handling all types of fires, and where the largest potential risk areas are located. Communications with and between plant employees is vital to a safe and effective response.

#### 4.8.3 Designated Response Stations

In the case of a disaster or other major incident, employees shall secure their work areas and processes and then report to the Plant Manager and/or General Foreman, at the main office, if they are not directly involved in Emergency Response.

Plant Office Employees stay at the office. Coordinate outside calls, inquiries, and media contacts.

#### 4.8.4 Evacuation

The need for evacuation shall be signaled by a message over the radio to all employees. All employees shall follow the safest path to meet at the closest location outside the property fence. If the main entrance is **not** affected, the employees should meet at Wacker Siltronics guard shack on the entrance road. If the main entrance is effected, than the closed safe location outside the property fence will have to be determined; generally, that would be towards N W Naturals LNG plant or towards the river behind the pencil pitch storage buildings.

Supervisors shall account for all of their employees, notify the EC when they are "all clear" and relay further instructions. An alternate location will be designated and announced at the time of the incident if the Main office is not a safe check-in location.

#### 4.8.5 Fire Suppression Systems

<u>Fire Hose and Hose Reels</u> are located at strategic points around the terminal. Employees must be familiar with ones within their work areas.

<u>Fire Extinguishers</u> are located throughout the plant and on rolling stock. CO-2 and ABC Dry Chemical types are used exclusively.

Dry Fire Water Suppression piping system is located at the ship unloading dock.

#### 4.8.6 Civil Strife, Strike

Emergencies resulting from or shutdowns as a result of, civil strife or strike situations require the control of people entering the plant, both authorized and unauthorized. Local law enforcement agencies can be helpful in achieving this goal, but in-plant security is management's immediate concern. When a total shutdown is planned, and security measures are to be implemented, the following should be observed.

Boiler

- Secure door locks.
- Follow established shutdown procedure.
- Assure that all steam line drains are open

# Hazardous Waste Storage Area

- Properly store all hazardous waste drums in the Boiler House.
- Lock doors.

# **Major Operations**

- Secure electrical panels.
- Turn off air compressors, shut valves.
- Store and secure portable tools, cords, hoses, etc.
- Clean up area for safety and fire protection.

#### Rolling Stock

- Park centrally in area in front of shop.

#### Gates

- Keep locked at all times.
- Put on new locks to prevent unauthorized entry.

#### **Security Patrols**

- Security patrols will be made 24 hours per day.
- Communication will be maintained at all times between the patrols and the main office by radio.

#### Lighting

The plant has general yard lighting system consisting of flood lights, streetlights and incandescent lighting. Outdoor lighting in front of the main office is controlled by photocells.

#### 4.9 Medical Emergency Plans

Emergency and first aid supplies are maintained at the following work locations:

Main Office (Main supply Center) Control Room (Intermediate supply location) Maintenance Shop (Intermediate supply location)

First aid supplies are intended for use on minor cuts, abrasions, and burns requiring simple care such as band-aids, disinfectant, or ointment. Supplies are also available for the immediate treatment of severe injuries while awaiting professional medical care, such as gauze pads, bandages, and splints.

Any First aid applied at the plant by plant employee's, is in no way intended to replace any needed medical attention, but only to help prior to receiving professional treatment.

If serious Injury occurs, assure that an ambulance is called immediately.

#### 5.0 STORM WATER POLLUTION PREVENTION PLAN

#### 5.1 General

This section of the Plan describes the pollution prevention procedures and facilities for this plant to minimize the impact of storm water runoff to the surrounding environment. This section specifically addresses the requirements of our Storm Water Industrial NPDES Permit.

# 5.2 Pollution Prevention Objectives and Process

All boiler blowdown water and storm water runoff is collected in our tank farm and is handled under the terms and conditions of our NPDES permit. No discharges are made unless they meet these terms and conditions.

#### 6.0 TRAINING

All plant employees shall receive training on the content of this plan. Supervisors will each receive a copy and become thoroughly familiar with it through training, discussion, and self study. Supervisors will train their employees in the overall plan and in the specific needs of their work areas.

Training will, at a minimum, include programs to ensure that facility personnel understand basic procedures for pollution prevention and good housekeeping and are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, as applicable to each employee's job function:

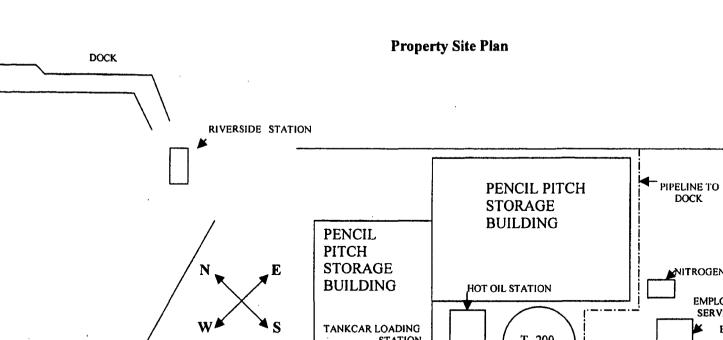
- Procedures for using, inspection, repairing, and replacing facility emergency and monitoring equipment;
- Communications and alarm systems;
- Response to fires or explosions;
- Response to ground water or surface water contamination
- Shutdown of operations;
- Methods for the safe handling of hazardous materials;

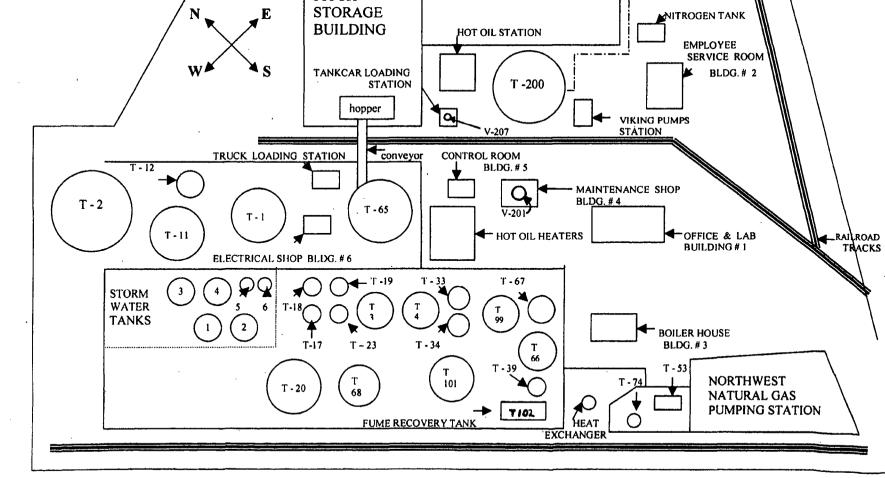
- Procedures for coordination with local emergency response organizations;
- Use and location of medical supplies;
- Use of emergency response equipment and supplies appropriate to work areas;
- Emergency response procedures and plans contained within this SPCC and Contingency Plan.

Refresher training will be provided at least annually. New employees will not work in unsupervised positions until they have completed all training required for those positions. Supervisors will provide training to their employees and management will assure that supervisors are properly trained.

Employees with specific additional job related training needs will also be given that training, such as hazardous waste handling training as required by RCRA and State regulations, hazardous waste operating procedures for fuel additive to the boiler, storm water pollution prevention, and waste water operations.

This training may be coordinated and take place concurrent with Hazard Communication and RCRA training. Safety meetings, and annual updates.





ORIGINAL COPY

CONTINGENCY, SPCC, AND POLLUTION PREVENTION PLAN

KOPPERS INDUSTRIES, INC.

PORTLAND PLANT

PORTLAND, OR

CONTINGENCY PLAN,
SPILL PREVENTION. CONTROL
AND COUNTERMEASURES (SPCC) PLAN
AND
STORM WATER POLLUTION PREVENTION PLAN
KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR
May 1, 1998

# **CERTIFICATION**

I hereby certify that I have inspected the subject facility, and being familiar with the provisions of 40 CFR 112 for SPCC requirements and 40 CFR 122 for Storm Water Pollution Prevention requirements, attest that this Plan has been prepared in accordance with good engineering practices.

James T. Dietz, P.C. Manager of Engineering

PENNA. # PE-039031-E

Date: May 18, 1998

#### MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.

og S. Kamerer ant Manager

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# 1.0 INTRODUCTION

This plan has been developed to; a) provide a basis for planning for and responding to potential spills, accidents, fires, or other contingencies and b) describe and implement practices to minimize and control pollutants in storm water discharges and ensure discharge permit compliance. It includes the requirements for the Contingency Plan as required by the Resources Conservation and Recovery Act (RCRA), the Spill Prevention, Control, and Countermeasures (SPCC) Plan and Storm Water Pollution Prevention Plan (SWPPP) of the Clean Water Act, and the inventory reporting requirements of the Emergency Planning and Community Right-to-Know Act (SARA Title III).

Questions concerning this plan may be directed to:

Amos	S. Kamerer	Plant Manager	(503)	286-3681
T.J.	Turner	General Foreman	(503)	286-3681

# 1.1 FACILITY LOCATION

The Portland plant is located in Multnomah County in the city of Portland, OR. The terminal is located on approximately 6.4 acres of leased property. The property owner is the Northwest Natural company, 220 NW 2nd Ave., Portland, OR, 97209. The portion of the property that Koppers Industries leases is addressed as 7540 N.W. Saint Helens Rd., Portland OR, 97210. The property is bounded by Saint Helens Rd (Oregon State Highway 30) on the south, the Northwest Natural Company property extending to the shore of the Willamette River on the North, The Northwest Company Liquified Natural Gas Plant on the west. The end of N.W. Front Ave. separates Koppers property from Wacker Siltronic Corporation, on the eastern boundary. 11 people are employed at the terminal (4 salaried people, 7 hourly people). Normal operating hours are from 4:00 p.m. on, Sundays through 4:00 p.m. on Fridays. Generally, the plant is closed on the weekends.

#### 1.2 OPERATION

Coal tar pitch and other related products are shipped into the terminal from our four domestic production plants via tank cars or are imported via bulk cargo ships. These products are then stored, or further remanufactured at the terminal, prior to the distribution to our customers. Outbound shipments are then made via tank truck or tank cars.

All products and/or chemicals used or handled through the terminal are covered by material safety data sheets which are on file. All employees have been trained on the usage of these materials and educated in the proper manner of reading and understanding of the material safety data sheets. This training is mandatory and retraining is given annually.

# 1.3 COORDINATED EMERGENCY SERVICES

This plan is written to facilitate the quick and efficient coordination of emergency response actions between Koppers Industries Inc. (Koppers) and any emergency response companies or agencies which may be needed. Copies of this plan, and updates, are provided to the following:

Oregon Department of Environmental Quality Portland Fire Department City of Portland, Environmental Services Dept. U.S. Coast Guard Plant Supervisors

Instructions on how and when to obtain assistance for emergency situations, including agency and contractor phone numbers, are included in section 4 of this plan.

# 1.4 SPCC AND SWPPP PLAN MAINTENANCE

This Plan must be kept up to date. Notify Koppers' Environmental Program Manager in the event of any change made. Automatic review, evaluation and recertification by a Professional Engineer is required once every three years from the date of the latest certification. This Plan must also be amended whenever there is a change in design, construction, operation or maintenance which materially affects the facility's potential for discharge, and the amendment fully implemented as soon as possible and no later than within six months.

A copy of this Plan is to be maintained in the plant's main office and the plant's melter control room.

Notify the Environmental Program Manager if any amendment needs to be made to this Plan.

# 2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

#### 2.1 Discussion

Various materials used at the Koppers facility are considered hazardous based on the toxicity or flammability of those materials. These include creosote that is used in the industrial processes to pressure treat wood products, unusable waste products from these processes, boiler water treatment chemicals, and fuel and lubricants for plant vehicles and equipment.

# 2.2 Business Information and Identification

The following information applies to the Koppers Industries Portland Plant:

Business Name: Koppers Industries, Inc.

Business Phone: (503) 286-3681

Business Fax: (503) 285-2831

Owner: Koppers Industries, Inc.

436 Seventh Ave.

Pittsburgh, PA 15219

Operator: Same as owner.

SIC Code: 2865

EPA ID Number: ORD 027734359

Site Address: 7540 N.W. Saint Helens Rd.

Portland, OR 97210

Mail Address: same as above

Type of Business: Creosote, Refined Tars and Coal Tar

Pitch Terminal

# 2.3 Emergency Contacts/Emergency Coordinators

Name/Address Title Home Phone

Amos S. Kamerer Plant Manager
5912 S.W. Knights Bridge Dr. Portland, OR 97219
Cellular Phone Number (503) 705-8748

T.J. Turner General Foreman 17815 N.E. 152nd Ave. Brush Prairie, WA 98606



The above people can normally be reached during work hours at the business phone number, (503) 286-3681. Additionally, the night shift operator (when there is a night shift) can be reached at (503)286-3682.

The plant manager is the Primary Emergency Coordinator and should be contacted first. If he is not available, the others should be called, in the order listed, until someone is reached. The Primary Emergency Coordinator and alternates have complete authority to commit all necessary resources of the company in the event of an emergency.

During off shifts, holidays, and weekends, the shift operator will be the acting Emergency Coordinator. During these times, the shift operator will notify the Emergency Coordinator, above, who will assume responsibility for implementation upon his arrival at the plant. Also on nights, weekends and holidays when there is no shift work occurring the plant is patrolled by N.W. Natural's Pinkerton Security guards who make rounds of the plant hourly. The guards have been provided with a list of emergency phone numbers to call in case of a problem.

Phone numbers for Koppers Industries Corporate Contacts are provided on Page 14.

#### 2.4 Hazardous Materials Inventory

The primary hazardous materials which are used or stored on the Koppers site are listed by tank in Table 3.7. Tank Listings Table, on page 10. The tanks and facilities are shown on the site map by number or name, on page 26.

- 3.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURES
- 3.1 Description

This section of the Plan provides information specific to the storage and handling of hazardous liquids, spill prevention and containment equipment, and countermeasures to be implemented to control the impact of a spill. The Tank Listings Table, Table 3.7, lists all the tanks at the Koppers plant by number along with contents, and capacity. Locations can be found for processes and tanks on the site map, on page, on page 26.

#### 3.2 Conformance with SPCC Standards and Guidelines

This facility meets the minimum requirements for diversionary structures and equipment to prevent discharged oil or hazardous substances from reaching navigable waters as required by 40 CFR 112.7(c) by providing secondary containment for all major tanks and process equipment.

The Portland plant is in conformance with the applicable guidelines of 40 CFR 112.7(e). Rainwater is collected, stored and then inspected prior to discharge, all in accordance with our NPDES permit requirements. Tank installations are equipped with secondary containment and are regularly inspected by operators. Spill prevention details for equipment and processes are discussed more fully below.

# 3.3 Inspections and Security

The operational areas in the plant are checked hourly by the operator on duty throughout each shift. The tank area is routinely checked by the operator on duty. Any problems or unusual circumstances which can not be immediately resolved are reported to the Supervisor.

# 3.4 General Plant Spill Prevention

A hazardous material spill can occur any place, any time. All employees are prepared to respond immediately to control The situation and to notify management. Containing a spill to the smallest area possible is the first step.

Containments can quickly be constructed using available equipment and supplies; usually by placing dirt, sand, or available absorbent pads or absorbent containment booms around the lower side of a spill. If possible, a spill should be prevented from reaching the surface water drainage, where it will spread more rapidly and have greater environmental and health impact.

Loading operations are supervised by employees familiar with the equipment involved. Buckets or pans are placed under hose connections to collect drips. Be prepared for hoses and pipes to be full and for liquid to be behind valves. Properly, and promptly cleanup any drips or spills. Supervisors must be notified of any spills which are outside of containments. Oil, creosote, and other hazardous material deliveries are made by vehicles complying with DOT spill control regulations. Unloading is supervised by plant operators. Collection pans should first be readily available. Collected material must be returned to the processes or be properly containerized for disposal.

# 3.5 Surface Drainage

The plant property is at 37' above sea level and our outfall for pumping off the collected storm runoff is located on the very south eastern tip of the property, at approximately a 10 ft. elevation above a creek that flows to the Willamette River.

In the Portland terminal there are two run-off patterns for site drainage. The first is directly in front of the office and away from any creosote or pitch handling areas. This area would not be threatened by a spill. All other run-off areas from the plant feed into the tank farm and then into a concrete collection sump. Dual sump pumps (one operating and one standby) lift the run-off into the storm water storage tanks #1, #2, #3, #4, #5 and #6. When these tanks fill, they are sampled and the samples are taken to an Oregon Department of Environmental Quality approved laboratory for analysis in accordance with our N.P.D.E.S. permit. When the laboratory reports that the test results are within the parameters allowed in the N.P.D.E.S. permit, the water is pumped to the out-fall referenced above.

Equipment, including secondary spill containment, has been installed and procedures implemented to prevent oil or hazardous materials from leaving the plant. A spill is most likely to occur in the process area, where it can be contained.

Koppers has installed extensive paving at the creosote tank car heat exchanger unloading location, including paving between the rail tracks and the loading area for trucks. In addition, a below grade sealed concrete sump was installed as a catch basin. This catch basin has approximately 1500 gallon capacity. Also two sump pumps have been installed. The first pump is automatically activated and pumps collected storm water into the tank farm storm water runoff collection system for further handling.

The second pump is energized only when we are unloading creosote rail cars. This pump is on a float activated switch and is piped to #39 tank, which is now designated as the emergency response tank at this location. Tank #39 is of sufficient capacity to hold the gallonage of a full tank car or 20,000 gallons. It is the duty of the loading/unloading employee to clear the catch basin of water, then open the valve to 39 tank and energize the automatic pump. In this way, should a creosote spill occur, all precautions are in place to contain the release.

In the case of a spill in which hazardous materials or oils reach any of the drainage ditches, immediate action must be taken to contain the spill. Temporary earth dams should be constructed using plant equipment along the ditches, creating a series of impoundments to contain the flow. Sorbent booms may be used to remove containments from the water held behind the dams, if needed.

These dams can only hold back a limited amount of water, so emergency help should be contacted at the first sign that such a spill has occurred or may occur.

#### 3.6 Tank Car and Truck Unloading

Tank cars are unloaded at the Unloading Station, where the process transfer pipelines are all above ground. The potential spill sources in this area include leaks from the process tanks, valves, pumps, and pipe systems. These leaks can best be prevented by proper valve and pump maintenance and equipment inspection during material transfers. Any leaks or drips must be cleaned up immediately.

As part of the operating procedures, drains and outlets on tank trucks and tank cars are checked for leakage before and after each loading and unloading operation. Operations personnel performing loading and unloading activities are instructed to inspect piping and pumps associated with these activities and to report spills or leakage.

The driver performs a visual inspection of the truck and trailer after each loading and if repairs are needed the truck is shopped for repairs.

The operating procedures included in this plan form the basis for the training of operations personnel in the prevention of creosote or coal tar discharge. Job positions within the Portland plant require that new personnel, working in unfamiliar process areas will have a senior experienced employee to guide them. Personnel are also instructed in the operation and maintenance of equipment to prevent discharges.

# 3.7 Tank Farm

All of the oil and hazardous material tanks are in the concrete-wall-lined and earth-diked tank farm. Containment capacity of this area is approximately 2,900,000 gallons is provided.

Table 3.7
TANK LISTING TABLE
Koppers Industries, Portland Plant

Tank No.	<u>Contents</u>	<u>Size</u>	<u>Capacit</u> y	<u>v (000)</u>
1.	Empty		660	М
2.	Empty		1065	М
3.	Methyl Solvent		99	M
4.	Lite Uncorrecte	ed Creosote	99	M
11.	Empty		254	М
12.	Empty		57	M
13.	Empty		20	M
17.	Empty		20	M
18.	Empty		20	
19.	Empty		20	
20.	Empty		317	
23.	Empty		20	
27.	Empty		20	
33.	Heavy Oil		45	
34.	N.S.R.		45	
39.	Empty		20	
53.	Empty		10	
65.	Melter Pitch		761	
66.	Empty		191	
67.	Creosote		102	
68.	Pitch Truck Sto	orage Tank	245	
74.	Empty		20	
99.	Empty		209	
101.	Empty		758	
102.	Fume Recovery T	Tank (Creosote)	10	М
	Storm Water		45	
	Storm Water		45	
•••	Storm Water		45	
	Storm Water		45	
	Storm Water		20	
SW #6	Storm Water		20	М
V 207	Empty		15	М

# 3.8 Fuel and Lubricating Oil

Lubricating Oil is stored in 55-gallon drums, most of which are stored in the oil house building. Drums are stored upright and kept sealed. Dispensing areas are kept clean. Oil drippage is contained. Any minor spills are contained and cleaned up immediately.

# 3.9 Hazardous Waste Storage Facilities

Hazardous waste is placed in drums when generated. Full drums are stored in drums in the rear storage area of the maintenance building. The drum or drums are disposed of through RCRA approved facilities, within less than 90 days.

#### 4.0 EMERGENCY RESPONSE PROCEDURES

#### 4.1 General

This section of the Plan describes the actions that are to be taken by Koppers personnel in response to any injury, accident, fire, explosion, or unplanned release of any hazardous material to the air, soil, or water.

# 4.2 Emergency Coordination

As soon as an emergency situation is discovered by an employee, that person shall quickly estimate the extent the problem, take safe and appropriate control action, and then notify the plant management immediately. Per the list in Section 2.3, page 3, the operator, who is present will assume the responsibilities of <a href="Emergency Coordinator">Emergency Coordinator</a> (EC). Other personnel will respond as directed by the EC, as needed.

The EC has Koppers Industries' authority to commit plant employees and contract labor and equipment, or to purchase supplies as needed.

Effective communication is vital in any emergency response. All plant employees have portable two-way radios which will be used for communication and coordination between the plant offices and yard areas. Phones may also be used between offices.

# 4.3 Immediate Response

As soon as an employee discovers an emergency situation, he shall quickly determine the extent of the problem. If a simple action can be taken to control a release, or other emergency, such as shutting a valve to stop the flow from a ruptured pipe and can be done safely, then the control action should be completed first. If there is no simple safe control action, or after taking such action, the operator shall immediately notify the plant management and any other personnel who may be endangered by the incident by phone or radio.

# 4.4 Response Procedures

- 4.4.1 Upon discovery or notification that an emergency exists, the EC shall:
  - Determine the extent of the emergency,
  - Implement plant evacuation, if needed, to prevent injury,
  - Call for outside assistance as needed.
  - Start immediate control actions.
  - Implement cleanup or other responses.
  - Notify local, state, and federal agencies as required,
  - Notify Koppers Pittsburgh Office,
  - Assure completion of cleanup,
  - Provide for storage of cleanup material, inc. hazardous waste
  - Evaluate possible hazards to human health or environment,
  - Make a final written incident report.
  - Make other notifications as stated in Section 3.5, Emergency Notifications.

Many of these actions may occur concurrently.

4.4.2 Whenever there is a release, fire, or explosion, the emergency coordinator shall immediately identify the character, exact source, the amount, and area affected by the incident. This may be done by observation, or review of facility records, or manifests and, if necessary, by chemical analysis. Form 4.5.5, pages 17 through 20, should be used to document the information needed for notifications.

- 4.4.3 Concurrently, the Emergency Coordinator shall assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment shall consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).
- 4.4.4 If the Emergency Coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, <u>outside of the facility</u>, or if the released amount of hazardous or extremely hazardous material exceeds the Reportable Quantity (RQ), the findings shall be immediately reported to the National Response Center as in Section 4.5, Emergency Notifications.

Note: that the reportable quantities for materials are listed in Section 4.5.

If his assessment indicates that evacuation of local areas <u>may</u> be advisable, appropriate local authorities shall be notified immediately. The Emergency Coordinator shall be available to help appropriate officials decide whether local areas should be evacuated.

- 4.4.5 During an emergency, the Emergency Coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes or materials at the plant. These measures could include turning water sprays onto tanks, stopping and isolating processes, shutting off power to areas, collecting and containing released materials, or moving and isolating other containers.
- 4.4.6 If some or all operations are stopped in response to an emergency, the emergency coordinator shall monitor tanks, pipes, valves, and other process equipment for leaks, pressure build-up or ruptures wherever appropriate.
- 4.4.7 Immediately after an emergency, the Emergency Coordinator shall provide for treating, storing, or disposing of recovered materials or wastes, contaminated soil, surface water, or any other material that results from a release, fire, or explosion.

- 4.4.8 Before resuming operations, the Emergency Coordinator shall:
  - a. Insure that clean-up is complete to the point that operations will not interfere or create further potential for hazardous waste release.
  - Insure that all emergency equipment is cleaned and fit for use, and
  - c. If hazardous wastes or a hazardous waste unit has been involved, then advise the Dept. of Environmental Quality and EPA Region X that Steps a. and b above are complete.
- 4.4.9 If hazardous wastes, or the hazardous waste unit has been involved, the Emergency Coordinator shall submit a written report as requested by the Dept. of Environmental Quality. A copy of the completed report shall be maintained in the Operating Record.
- 4.5 Emergency Notifications
- 4.5.1 The emergency coordinator shall ensure that the necessary notifications are made. Form 4.5.5 entitled, "Emergency and/or Hazardous Materials Incident Report" is to be used. Page one is organized to provide all of the information needed for the initial verbal notification of the National Response Center or other agencies. As soon as a spill or other incident is discovered, the supervisor/manager who will do the reporting should begin filling in the information.

Pages 2 should be used as a log of notification made. Get the position and name of the person who accepts the phone notifications. Also, if an incident number is assigned, as by the National Response Center, that number should be recorded. As more is learned about the incident, the report should be updated. Updates can be recorded on page 2 as well.

Pages 1, 2, and 3, completed either by hand or typed, can be used for the required written notification of agencies. These should be sent with cover letters showing everyone who will get copies. Copies must be kept in the plant's Operating Record.

Finally, page 4 should be used for Koppers Industries internal reporting of additional related information. KII has an obligation to report all spills which could possibly impact over-all cleanup work. The complete report, Pages 1, 2, 3, and 4 should be sent to the Environmental Program Manager including original photographs. He will provide the required notification to Beazer East, Inc.

## 4.5.2 WHAT SPILLS OR INCIDENTS MUST BE REPORTED AND TO WHOM?

Following is a summary. Note that more than one category may apply.

# If outside help is needed, IMMEDIATELY:

Call fire and/or other appropriate emergency agencies, describe incident and needed assistance, such as fire suppression; medical aid, evacuation, and/or crowd control.

# If a release or threatened release of hazardous material. IMMEDIATELY OR:

If health\_threat or release outside of facility: OR

If the release results in or has the potential to cause an oil sheen on or discoloration of runoff water:

Call 911 for immediate help. If the release involved a Reportable Quantity (RQ), then call both the Oregon Emergency Management Office at 1-800-424-8802.

Such releases that cannot be recovered must also be included in the SARA Title III annual reports.

If the release results in or has the potential to reach the City Storm or Sanitary Sewer drains. IMMEDIATELY:

Call the Duty Officer at 823-7180

If hazardous waste or a hazardous waste unit is involved OR if the plant contingency plan is implemented: IMMEDIATELY AND NOT LATER THAN 24 HOURS: Call the Oregon Emergency Management Office at #1-800-452-0311 AND. Within 15 days

Submit a written report of the incident to them at: 595 Cottage Street, N.E. Salem, Oregon 97310

If injuries result in 3 or more people being hospitalized or 1 or more person killed. IMMEDIATELY:

Call the U.S. Occupational Safety and Health Administration or authorized state OSHA agency <u>WITHIN 8 HOURS!</u>

In all cases, as soon as the emergency situation allows, Koppers management in Pittsburgh shall be called. Follow the guidance contained in "Internal Emergency Notification Procedures" for Koppers Industries, Inc. At least one of the following primary contacts in Pittsburgh shall be notified:

Name, Position	<u>Work Phone</u>	<u>Home Phone</u>
Traci Self, Mgr. Environmental Compliance	412/227-2883	
Mike Juba, Mgr. Health & Safety	412/227-2882	
Randy Collins, Mgr. Loss Control	412/227-2456	

#### 4.5.3 WHAT SPILLS ARE REPORTABLE?

For hazardous materials, Reportable Quantities (RQ) are specified by the EPA. Additional requirements may be set by some states. The Federal Quantities are:

Creosote	1 pound
Benzo (A) Pyrene	163 lbs. of solid pitch or 15
	gal. of liquid pitch
Dibenzo (A,H)Anthracene	163 lbs. of solid pitch or 15
	gal. of liquid pitch.

The Clean Water Act also has reporting requirements. Generally if "oil" is released to or presents the potential to be released to navigable waters in amounts that result in a sheen on or discoloration of the water or adjoining shorelines, cause a sludge or emulsion to be deposited beneath the surface of the water or upon the adjoining shorelines, or violates an applicable water quality standard, then it is reportable and the National Response Center must be notified.

Gasoline, lubricating oils, and transmission fluid are all regulated as "oil. Unless released as above, reporting is not mandatory.

# 4.5.4 IF IN DOUBT, REPORT!

If a spill is large enough to require cleanup action but is not reportable, it generally is a good practice to make a courtesy report to the local agency contact. It shows that we are on top of the problem and provide valuable documentation of our response in case of a report by a third party. The attached written report form should also be completed and submitted internally.

	EMERGENCY	Form 4.5.5 AND/OR HAZARDOUS MA <sup>-</sup> INCIDENT REPORT	TERIALS	Page 1
City,St,ZIP: Phone:	Portland P 7540 N.W.	Saint Helens Road. Or. 97210-3663 81		
FACILITY:	Same as ab	ove		
DATE OF INCIDENT:		TIME OF INCIDENT:		
TYPE OF INCIDENT: Fire (Circle One) Haza		Hazardous Material Spill, Injury Accid		•
Other: _				
MATERIALS INVOLVED: Name		Quantity		
			-	
	,		-	
EXTENT OF INJURIES, IF	ANY:		_	
DISPOSITION OF RECOVERI Material Quan		How Disposed or St	tored	

Page 2

# Form 4.5.5 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

NUTTFICATI <u>Agency</u>	.ON LOG: <u>Phone N</u>	lo	Name of Person	Data/Time Notified
Agency	<u>FIIONE I</u>	<u> </u>	Name of Person	Date/Time Notified
Portland Fire	Dept. 9	911		
Oregon Emerge 1	ncy Manageme -800-452-031			
National Resp 1	onse Center -800-424-880	)2	· · · · · · · · · · · · · · · · · · ·	
Oregon OSHA 2	29-5910			
City Duty Off (For St	orm, Sewer,		l <del>y</del> )	
Northwest Nat	ural Gas 2	224-3532		
Wacker Siltro	nics 243-202	20		·
Securit	y for FAB #1	L Ext. 7420		
Securit	y for FAB #2	2 Ext. 4300	·	
Pacific North	ern Fuels 2	286-9621	· .	

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# Form 4..5.5 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

Manager of	Environmenta	l Compliance, T	raci Self	,				
Office Home:		412-227-2883 412-231-0246						
ADDITIONAL	DESCRIPTION	OF INCIDENT AND	ACTIONS 7	TAKEN	(Attach	page	if neede	ed) 
DEDOOT DV	/N>				DATE			_
REPORT BY	· —				DATE			
REPORT REV					DATE			
REPORT REV	ISED:				DATE			

Page 4

# Table 4.5.5 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

SUPPLEMENTAL INFORMATION REPORT
(This part of report is intended for KII internal use only.)
CLEARLY DESCRIBE HOW INCIDENT OCCURRED:
WHAT ACTS OR CONDITIONS MOST DIRECTLY CAUSED THE INCIDENT:
DESCRIBE ANY RESIDUAL CONTAMINATION OR IMPACT:
ATTACH PHOTOGRAPHS WHICH SHOW INCIDENT AREA, BEFORE AND AFTER RESPONSE ACTIONS. MARK DAT
OF PHOTOS. ATTACH ADDITIONAL SHEETS AS NEEDED TO DESCRIBE INCIDENT AND RESPONSE ACTIONS.

# 4.6 Available Equipment

The following equipment is available at the plant:

EQUIPMENT
Front-end Hydraulic payloaders
1 Pickup Truck
Sorbent Pads and Booms
Lift Trucks
Portable Pump

STORAGE LOCATION
Shop area
Office parking lot
Various Emergency Response Cabinets
Shop Area
Shop Area

The above equipment can be effectively used to control and clean a spill of oil, hazardous material, or hazardous waste. Trucks and tractors can be used to transport and place soil for containment dams, sorbent to soak up spilled liquid, and contaminated soil from cleanup actions. Pumps can be used to pump spilled liquid back into containments. After response action is complete, equipment should be placed on the drip pad or vehicle wash pad and be decontaminated with the steam cleaner prior to being released from the response.

# 4.7 Emergency Response Contract Service

Koppers has entered into a Corporate Agreement with O.H. Materials Corporation to provide various environmental services in the event of an emergency. O.H. Materials has subcontracted this service in the Portland area to Foss Environmental Services, they can be reached at their local number 283-1150, all 24 hours a day.

# 4.8 Fire and Disaster Response Plans

4.8.1 This section of the Plan provides additional information on specific response actions to be taken in the event of a major disaster, emergency, or other disruption. Such an event could include:

- Fire or explosion
- Earthquake
- Strike or civil strife.

# 4.8.2 Fire or Explosion

Fire disasters can occur anywhere in the plant environment, so all employees should be knowledgeable as to the proper method for handling all types of fires, and where the largest potential risk areas are located. Communications with and between plant employees is vital to a safe and effective response.

# 4.8.3 Designated Response Stations

In the case of a disaster or other major incident, employees shall secure their work areas and processes and then report to the General Foreman and/or Plant Manager, at the main office, if they are not directly involved in Emergency Response.

Plant Office Employees stay at office. Coordinate outside calls, inquires, and media contacts.

#### 4.8.4 Evacuation

The need for evacuation shall be signalled by a message over the radio to all employees. Employees shall follow the safest path to meet and check in at the closest location outside the property fence, that is considered to be a safe area.

Supervisors shall account for all of their employees, notify the EC when they are "all clear" and relay further instructions. An alternate location will be designated and announced at the time of the incident if the Main office is not a safe check-in location.

# 4.8.5 Fire Suppression Systems

<u>Fire Hose and Hose Reels</u> are located at strategic points around the plant. Employees must be familiar with ones within their work areas.

<u>Fire Extinguishers</u> are located throughout the plant and on rolling stock. CO-2 and ABC Dry Chemical types are used exclusively.

#### 4.8.6 Civil Strife. Strike

Emergencies resulting from, or shutdowns as a result of, civil strife or strike situations require the control of people entering the plant, both authorized and unauthorized. Local law enforcement agencies can be helpful in achieving this goal, but in-plant security is management's immediate concern. When a total shutdown is planned, and security measures are to be implemented, the following should be observed.

#### Boiler

- Secure door locks.
- Follow established shutdown procedure.
- Assure that all steam line drains are open.

# Hazardous Waste Storage Facility

- Properly store all hazardous waste drums in facility.
- Lock doors

# Major Operations

- Secure electrical panels.
- Turn off air compressors, shut valves.
- Store and secure portable tools, cords, hoses, etc.
- Clean up area for safety and fire protection.

## Rolling Stock

- Park centrally in area in front of shop.

### <u>Gates</u>

- Keep locked at all times.
- Put on new locks to prevent unauthorized entry.

#### Security Patrols

- Security patrols will be made 24 hours per day.
- Communication will be maintained at all times between the patrols and the main office by radio.

#### Lighting

The plant has general yard lighting system consisting of flood lights, street lights and incandescent lighting. Outdoor lighting in front of the main office is controlled by photo cells.

# 4.9 Medical Emergency Plans

Emergency and first aid supplies are maintained at the following work locations:

Main Office (Main supply center)
Control Room (Intermediate supply location)
Maintenance Shop (Intermediate supply location)

First aid supplies are intended for use on minor cuts, abrasions, and burns requiring simple care such as band-aids, disinfectant, or ointment. Supplies are also available for the immediate treatment of severe injuries while awaiting professional medical care, such as gauze pads, bandages, and splints.

First aid applied at the plant by plant employees is in no way intended to replace any needed medical attention, but only to help prior to receiving professional treatment.

If a serious injury occurs, assure that an ambulance is called immediately.

#### 5.0 STORM WATER POLLUTION PREVENTION PLAN

#### 5.1 General

This section of the Plan describes the pollution prevention procedures and facilities for this plant to minimize the impact of storm water runoff to the surrounding environment. This section specifically addresses the requirements of our Storm Water Industrial NPDFS Permit.

# 5.2 Pollution Prevention Objectives and Process

All boiler blowdown water and stormwater runoff is collected in our tank farm and is handled under the terms and conditions of our NPDES permit. No discharges are made unless they meet these terms and conditions.

# 6.0 TRAINING

All plant employees shall receive training on the content of this plan. Supervisors will each receive a copy and become thoroughly familiar with it through training, discussion, and self study. Supervisors will train their employees in the overall plan and in the specific needs of their work areas.

Training will, at a minimum, include programs to ensure that facility personnel understand basic procedures for pollution prevention and good housekeeping and are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, as applicable to each employee's job function:

- \* Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;
- \* Communications and alarm systems;
- \* Response to fires or explosions:

- \* Response to ground-water or surface water contamination incidents;
- \* Shutdown of operations;
- \* Methods for the safe handling of hazardous materials:
- \* Procedures for coordination with local emergency response organizations;
- \* Use and location of medical supplies;
- \* Use of emergency response equipment and supplies appropriate to work areas;
- \* Emergency response procedures and plans contained within this SPCC and Contingency Plan.

Refresher training will be provided at least annually. New employees will not work in unsupervised positions until they have completed all training required for those positions. Supervisors will provide training to their employees and management will assure that supervisors are properly trained.

Employees with specific additional job related training needs will also be given that training, such as hazardous waste handling training as required by RCRA and State regulations, hazardous waste operating procedures for fuel additive to the boiler, storm water pollution prevention, and waste water operations.

This training may be coordinated and take place concurrent with Hazard Communication and RCRA training, safety meetings, and annual updates.

PROPERTY SITE PLAN

# CONTINGENCY, SPCC, AND POLLUTION PREVENTION PLAN

KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR

REVISED 3/17/97

CONTINGENCY PLAN,
SPILL PREVENTION, CONTROL
AND COUNTERMEASURES (SPCC) PLAN
AND

STORM WATER POLLUTION PREVENTION PLAN
KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR
December 7, 1994

### **CERTIFICATION**

I hereby certify that I have inspected the subject facility, and being familiar with the provisions of 40 CFR 112 for SPCC requirements and 40 CFR 122 for Storm Water Pollution Prevention requirements, attest that this Plan has been prepared in accordance with good engineering practices.

Edward M. Bennett Tar Products Engineer PENNA. #002433E

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Date: 12/20/94

MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.

Amøs . Kamerer Plan Manager

Koppers003330

Necds to be
Re-contified
every 3 years

EDWARD M. BENINETT

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### 1.0 INTRODUCTION

This plan has been developed to; a) provide a basis for planning for and responding to potential spills, accidents, fires, or other contingencies and b) describe and implement practices to minimize and control pollutants in storm water discharges and ensure discharge permit compliance. It includes the requirements for the Contingency Plan as required by the Resources Conservation and Recovery Act (RCRA), the Spill Prevention, Control, and Countermeasures (SPCC) Plan and Storm Water Pollution Prevention Plan (SWPPP) of the Clean Water Act, and the inventory reporting requirements of the Emergency Planning and Community Right-to-Know Act (SARA Title III).

Questions concerning this plan may be directed to:

Amos S. Kamerer Plant Manager (503) 286-3681 T.J. Turner General Foreman (503) 286-3681

### 1.1 FACILITY LOCATION

The Portland plant is located in Multnomah county in the city of Portland, OR. The terminal is located on approximately 6.4 acres of leased property. The property owner is the Northwest Gas company, 220 NW 2nd Ave., Portland, OR, 97209. The portion of the property that Koppers Industries leases is addressed as 7540 N.W. St. Helens Rd., Portland OR, 97210. The property is bounded by St. Helens Rd (Oregon State Highway 30) on the south, the Northwest Natural Gas Company property extending to the shore of the Willamette River on the North, The Northwest Gas Company liquified Natural Gas Plant on the west. A service road separates Koppers property from Wacker Siltronic Corporation, on the eastern boundary. Approximately 10 people are employed at the terminal (4 salaried people, 6 hourly people). Normal operating hours are 4:00 p.m. to 4:30 p.m., Sunday through Generally, the plant is closed on the weekends. Friday.

### 1.2 OPERATION

Coal tar pitch and other related products are shipped into the terminal from our four domestic production plants via tank cars or are imported via bulk cargo ships. These products are then stored or further remanufactured at the terminal, prior to the distribution to our customers. Outbound shipments are then made via tank truck or tank cars.

All products and/or chemicals used or handled through the terminal are covered by material safety data sheets which are on file. All employees have been trained on the usage of these materials and educated in the proper manner of reading and understanding of the material safety data sheets. This training is mandatory and retraining is given annually.

### 1.3 COORDINATED EMERGENCY SERVICES

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This plan is written to facilitate the quick and efficient coordination of emergency response actions between Koppers Industries Inc. (Koppers) and any emergency response companies or agencies which may be needed. Copies of this plan, and updates, are provided to the following:

U. S. EPA Region X
Oregon Department of Environmental Quality
Portland Fire Department
Plant Supervisors
City of Portland, Environmental Services Dept.

Instructions on how and when to obtain assistance for emergency situations, including agency and contractor phone numbers, are included in section 4 of this plan.

### 1.4 SPCC AND SWPPP PLAN MAINTENANCE

This Plan must be kept up to date. Notify Koppers' Environmental Program Manager in the event of any change made. Automatic review, evaluation and recertification by a Professional Engineer is required once every three years from the date of the latest certification. This Plan must also be amended whenever there is a change in design, construction, operation or maintenance which materially affects the facility's potential for discharge, and the amendment fully implemented as soon as possible and no later than within six months.

A copy of this Plan is to be maintained in the plant's main office and the plant's melter control room.

Notify the Environmental Program Manager if any amendment needs to be made to this Plan.

### 2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

### 2.1 Discussion

Various materials are used at the Koppers facility which are considered hazardous based on the toxicity or flammability of the materials. These include preservatives which are used in the industrial processes to pressure treat wood products, unusable waste products from these processes, boiler water treatment chemicals, and fuel and lubricants for plant vehicles and equipment.

### 2.2 Business Information and Identification

The following information applies to the Koppers Industries Portland Plant:

Business Name: Koppers Industries, Inc.

Business Phone: (503) 286-3681

Owner: Koppers Industries, Inc.

436 Seventh Ave.

Pittsburgh, PA 15219

Operator: Same as owner.

SIC Code: 2865

EPA ID Number: ORD 027734359

Site Address: 7540 N.W. St. Helens Rd.

Portland, OR 97210

Mail Address: same as above

Type of Business: Creosote, Refined Tars and Coal Tar Pitch

Terminal

### 2.3 Emergency Contacts/Emergency Coordinators

Name/Address Title Home Phone

Amos S. Kamerer Plant Manager 5912 S.W. Knights Bridge Dr. Portland, OR 97219

T.J.Turner General Foreman 17815 N.E. 152nd Ave. Brush Prairie, WA 98606

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T.J.Turner General Foreman 17815 N.E. 152nd Ave. Brush Prairie, WA 98606

Home Phone

The above people can normally be reached during work hours at the business phone number, (503) 286-3681. Additionally, the night shift operator (when there is a night shift) can be reached at (503) 286-3681.

The plant manager is the Primary Emergency Coordinator and should be contacted first. If he is not available, the others should be called, in the order listed, until someone is reached. The Primary Emergency Coordinator and alternates have complete authority to commit all necessary resources of the company in the event of an emergency.

During off shifts, holidays, and weekends, the shift foreman will be the acting Emergency Coordinator. During these times, the shift foreman will notify the Emergency Coordinator, above, who will assume responsibility for implementation upon his arrival at the plant. Also on nights, weekends and holidays when there is no shift work occuring the plant is patrolled by N.W. Natural Gas guards who make rounds of the plant hourly. The guards have been provided a list of emergency phone numbers to call in case of a problem.

Phone numbers for Koppers Industries Corporate Contacts are provided on Page 14.

### 2.4 Hazardous Materials Inventory

The primary hazardous materials which are used or stored on the Koppers site are listed by tank in Table 3.7, Tank Listings Table (page 9). The tanks and facilities are shown on the site map by number or name.

### 3.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURES

### 3.1 Description

This section of the Plan provides information specific to the storage and handling of hazardous liquids, spill prevention and containment equipment, and countermeasures to be implemented to control the impact of a spill. The Tank Listings Table, Table 3.7, lists all the tanks used at the Koppers plant by number along with their name, contents, and capacity. Locations can be found for processes and tanks on the site map.

Top unlanding connect it

### 3.2 Conformance with SPCC Standards and Guidelines

This facility meets the minimum requirements for diversionary structures and equipment to prevent discharged oil or hazardous substances from reaching navigable waters as required by 40 CFR 112.7(c) by providing secondary containment for all major tanks and process equipment.

The Portland plant is in conformance with the applicable guidelines of 40 CFR 112.7(e). Rainwater is collected, stored and then inspected prior to discharge. Tank installations are equipped with secondary containment and are regularly inspected by operators. The creosote tank car unloading station is top unloading. Spill prevention details for equipment and processes are discussed more fully below.

### 3.3 Inspections and Security

The operational areas in the plant are checked hourly by the operator on duty throughout each shift. The tank area is routinely checked by the operator on duty. Any problems or unusual circumstances which can not be immediately resolved are reported to the Supervisor.

### 3.4 General Plant Spill Prevention

A hazardous material spill can occur any place, any time. All employees must be prepared to respond immediately to control damage and to notify management. Containing a spill to the smallest area possible is the first step.

Containments can quickly be constructed using available equipment and supplies; usually by placing dirt, sand, or sawdust around the lower side of a spill with Koppers loaders. If possible, a spill should be prevented from reaching the surface water drainage, where it will spread more rapidly and have greater environmental and health impact.

Loading operations should be supervised by employees familiar with the equipment involved. Buckets or pans should be placed under hose connections to collect drips. Be prepared for hoses and pipes to be full and for liquid to be behind valves. Properly and promptly cleanup any drips or spills. Supervisors must be notified of any spills which are outside of containments. Oil, creosote, and other hazardous material deliveries are made by vehicles complying with DOT spill control regulations. Unloading is supervised by plant operators.

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systems. Collection pans should first be readily available. Collected material must be returned to the processes or be properly containerized for disposal.

### 3.5 Surface Drainage

The plant property is at 37' above sea level and our outfall for pumping off the collected storm runoff is located on the very south eastern tip of the property approximately 10' ft. elevation above a creek that flows to the Willamette River.

In the Portland terminal there are two run-off patterns for site drainage. The first is directly in front of the office and away from any creosote, tar handling or process area. This area would not be threatened by a spill. All other run-off channels from the tank farm, into a concrete storm run-off sump. Dual sump pumps (one operating and one standby) lift the run-off into the waste water storage tanks #1, #2, #3, #4, #5 and #6. When these tanks fill they are sampled and the samples are taken to an Oregon Department of Environmental Quality approved laboratory for analysis. Then, in accordance with the rules governing our N.P.D.E.S. permit, the samples are checked for temperature, P.H., oil and grease content and phenol content. When the laboratory reports the results and it is certified that the water in the waste water tanks is within the parameters allowed in the N.P.D.E.S. permit, the water is pumped to the out-fall and into the creek that flows into the Willamette River.

Equipment, including secondary spill containment, has been installed and procedures implemented to prevent oil or hazardous materials from leaving the plant. A spill is most likely to occur in the process area and if not contained, would drain into the ditch.

Koppers has installed extensive paving at the heat exchanger location including paving between the rail tracks and the loading area for trucks. In addition, a below grade sealed concrete sump was installed as a catch basin. This catch basin has approximately 1500 gallon capacity. Also two sump pumps have been installed. The first pump, manually activated, pumps collected storm water to the storm water runoff collection system for further handling.

The second pump is energized only when we are unloading creosote rail cars. This pump is on a float activated switch and is piped to #39 tank, which is now designated as the emergency response tank at this location. Tank #39 is of sufficient capacity to hold the gallonage of a full tank car if needed, 20,000 gallons. It is the duty of the loading/unloading employee to clear the catch basin of water, then open the valve to 39 tank and emergize the automatic pump. In this way, should a creosote spill occur, all precautions are in place to contain the release.

In the case of a spill in which hazardous materials or oils reach either of the drainage ditches, immediate action must be taken to contain the spill. Temporary earth dams should be constructed using plant equipment along the ditches, creating a series of impoundments to contain the flow. Sorbent booms may be used to remove containments from the water held behind the dams, if needed.

These dams can only hold back a limited amount of water, so emergency help should be contacted at the first sign that such a spill has occurred or may occur.

### 3.6 Tank Car and Truck Unloading

Tank cars are unloaded at the Unloading Station, where the process transfer pipelines are all above ground. The potential spill sources in this area include leaks from the process tanks, valves, pumps, and pipe systems. These leaks can best be prevented by proper valve and pump maintenance and equipment inspection during creosote transfers. Any leaks or drips must be cleaned up immediately.

As part of the operating procedures, drains and outlets on tank trucks and tank cars are checked for leakage before and after each loading and unloading operation. Operations personnel performing loading and unloading activities are instructed to inspect piping and pumps associated with these activities and to report spills or leakage.

The driver performs a visual inspection of the truck and trailer after each loading and prepares a Driver Vehicle Inspection Report which is filed and if repairs are needed the truck is shopped for repairs.

The operating procedures included in this plan form the basis for the training of operations personnel in the prevention of creosote or coal tar discharge. Job positions within the Portland plant require that new personnel, working in unfamiliar process areas will have a senior experienced employee to guide them. Personnel are also instructed in the operation and maintenance of equipment to prevent discharges.

### 3.7 Tank Farm

All preservative tanks are in the concrete-wall-lined and earth-diked tank farm. Containment capacity of approximately 2,900,000 gallons is provided.

Table 3.7
TANK LISTING TABLE
Koppers Industries, Portland Plant

Tank No.	<u>Contents</u>	<u>Size</u>	Capacity (000) (Gallons)
53. 65. 66. 67. 68.	Lite Uncorrected Creos Not on Lease Not on Lease EmptyOut of Service Heavy OilBottoms EmptyOut of Service Priming & Refractory O R.T. Creosote Bottoms Lite Unc. Bottoms Lite Unc. Bottoms EmptyOut of Service Heavy OilPitch & Cre N.S.R. P1/P13 Bottoms Empty-out of service Melter Pitch	il	(Gallons)  660 M 1065 M 99 M 99 M 254 M 57 M 20 M 20 M 20 M 20 M 20 M 20 M 20 M 17 M 20 M 20 M 20 M 20 M 20 M 20 M 20 M 20
101. 102.	Empty-out of service Fume Tank		758 M
WW # WW # WW # WW # WW #	<pre>Water-Effluent Water-Effluent Water-Effluent Water-Effluent Water-Effluent</pre>	vice	45 M 45 M 45 M 45 M 20 M 20 M

### 3.8 Fuel and Lubricating Oil

Lubricating oil is stored in 55-gallon drums, most of which are store in the oil house building. Drums should be stored upright and kept sealed. Dispensing areas should be kept clean. Oil drippage should be contained. Any minor spills should be cleaned up immediately.

### 3.9 Hazardous Waste Storage Facilities

All hazardous waste that is in process is stored in drums in the rear storage area of the maintenance building. Once full, the drum or drums are disposed of through RCRA approved facilities.

#### 4.0 EMERGENCY RESPONSE PROCEDURES

#### 4.1 General

This section of the Plan describes the actions that are to be taken by Koppers personnel in response to any injury, accident, fire, explosion, or unplanned release of any hazardous material to the air, soil, or water.

### 4.2 Emergency Coordination

As soon as an emergency situation is discovered by an employee, that person shall quickly estimate the extent the problem, take safe and appropriate control action, and then notify the plant management immediately. Once notification list is Section 2.3, page 4, who is present will assume the responsibilities of <a href="Emergency Coordinator">Emergency Coordinator</a> (EC). Other personnel will respond as a team under the direction of the E as needed based on the type of emergency, individual skills, and plant responsibilities.

The E has Koppers Industries' commitment to spill prevention and response and has the authority to commit plant employees and contract labor and equipment to response actions and to purchase needed supplies. The E is responsible for the appropriate implementation of this plan in an emergency.

Effective communication is vital in any emergency response. All plant employees have portable two-way radios which will be used for communication and coordination between the plant offices and yard areas. Phones may also be used between offices.

### 4.3 Immediate Response

As soon as an employee discovers an emergency situation, he shall quickly determine the extent of the problem. If a simple action can be taken to control a release or other emergency, such as shutting a valve to stop the flow from a ruptured pipe and can be done safely, then the control action should be completed first. If there is no simple, safe control action or after taking such action the person shall immediately notify the plant management and any other personnel who may be endangered by the incident by phone or radio.

### 4.4 Response Procedures

- 4.4.1 Upon discovery or notification that an emergency exists, the EC, assisted by the management team, shall:
  - Determine the extent of the emergency,
  - Implement plant evacuation, if needed, to prevent injury,
  - Call for outside assistance as needed,
  - Start immediate control actions,
  - Implement cleanup or other responses,
  - Notify local, state, and federal agencies as required,
  - Notify Koppers Pittsburgh office,
  - Assure completion of cleanup,
  - Provide for storage of cleanup material, inc. hazardous waste,
  - Evaluate possible hazards to human health or environment,
  - Make a final written incident report.

Many of these actions may occur concurrently...

- 4.4.2 Whenever there is an imminent or actual emergency situation, the emergency coordinator, or his designee, shall:
  - Immediately call by radio or phone to notify all facility personnel:
  - Immediately notify appropriate federal, state, and/or local agencies with designated response roles if their help is needed;
  - Make other notifications as stated in Section 3.5, Emergency Notifications.
- 4.4.3 Whenever there is a release, fire, or explosion, the emergency coordinator shall immediately identify the character, exact source, amount, and area extent of any released materials. This may be done by observation or review of facility records or manifests and, if necessary, by chemical analysis. Form 4.1 should be used to document the information needed for notifications.
- 4.4.4 Concurrently, the Emergency Coordinator shall assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment shall consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).

4.4.5 If the Emergency Coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, outside of the facility, or if the released amount of hazardous or extremely hazardous material exceeds the Reportable Quantity (RQ), the findings shall be immediately reported to the National Response Center as in Section 4.5, Emergency Notifications.

Note that the reportable quantities for materials are listed in Section 4.5.

- If his assessment indicates that evacuation of local areas <u>may</u> be advisable, appropriate local authorities shall be notified immediately. The Emergency Coordinator shall be available to help appropriate officials decide whether local areas should be evacuated.
- 4.4.6 During an emergency, the Emergency Coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes or materials at the plant. These measures could include turning water sprays onto tanks, stopping and isolating processes, shutting off power to areas, collecting and containing released materials, or moving and isolating other containers.
- 4.4.7 If some or all operations are stopped in response to an emergency, the emergency coordinator shall monitor tanks, pipes, valves, and other process equipment for leaks, pressure build-up or ruptures wherever appropriate.
- 4.4.8 Immediately after an emergency, the Emergency Coordinator shall provide for treating, storing, or disposing of recovered materials or wastes, contaminated soil, surface water, or any other material that results from a release, fire, or explosion.
- 4.4.9 Before resuming operations, the Emergency Coordinator shall:
  - a. Insure that clean-up is complete to the point that operations will not interfere or create further potential for hazardous waste release,
  - b. Insure that all emergency equipment is cleaned and fit for use, and
  - c. If hazardous wastes or a hazardous waste unit has been involved, then advise the Dept. of Environmental Quality and EPA Region X that Steps a. and b. above are complete.

4.4.10 If hazardous wastes or a hazardous waste unit has been involved, the Emergency Coordinator shall submit a written report within 15 days of the incident to the Dept. of Environmental Quality. Form 4.1, completed, may fulfill this purpose or will at least provide a basis for the report. A copy of the completed report shall be maintained in the Operating Record.

### 4.5 Emergency Notifications

4.5.1 The emergency coordinator shall ensure that the necessary notifications are made. Form 4.1 entitled, "Emergency and/or Hazardous Materials Incident Report" is to be used. Page one is organized to provide all the information needed for the initial verbal notification of the National Response Center or other agencies. As soon as a spill or other incident is discovered, the supervisor/manager who will do the reporting should begin filling in the information.

Page 2 should be used as a log of notifications made. Get the position and name of the person who accepts the phone notifications. Also, if an incident number is assigned, as by the National Response Center, that number should be recorded. As more is learned about the incident, the report should be updated. Updates can be recorded on page 2 as well.

Pages 1 and 2, completed either by hand or typed, can be used for the required written notification of agencies. These should be sent with cover letters showing everyone who will get copies. Copies must be kept in the plant's Operating Record.

Finally, page 3 should be used for Koppers Industries internal reporting of additional related information. KII has an obligation to report all spills which could possibly impact over-all cleanup work. The complete report, Pages 1, 2, and 3 should be sent to W.E. Swearingen, Environmental Program Manager including original photographs. He will provide the required notification to Beazer East, Inc.

4.5.2 WHAT SPILLS OR INCIDENTS MUST BE REPORTED AND TO WHOM?

Following is a summary. Note that more than one category may apply.

### If outside help is needed. IMMEDIATELY:

Call fire and/or other appropriate emergency agencies, describe incident and needed assistance, such as fire suppression, medical aid, evacuation, and/or crowd control.

# If release or threatened release of hazardous material, IMMEDIATELY:

Call 911-for immediate help, then call both the Oregon Emergency Management Office at 1-800-452-0311 and the National Response Center at 1-800-424-8802. This report shall be made unless it is determined that the release poses no significant hazard to human health and safety, property, or the environment and is less than the reportable quantity for the material.

Such releases which cannot be recovered must also be included in the SARA Title III annual reports.

### If health threat or release outside of facility: OR

If the release results in or has the potential to cause an oil sheen on or discoloration of runoff water; QR

If release of hazardous or extremely hazardous material exceeds the Title III Reportable Ouantity, IMMEDIATELY:

All National Response Center at 800-424-8802.

If the release results in or has the potential to reach the City Storm or Sanitary Sewer drains, IMMEDIATELY:

Call the Duty Officer at 823-7180

If hazardous waste or a hazardous waste unit is involved OR if the plant contingency plan is implemented: IMMEDIATELY AND NOT LATER THAN 24 HOURS:

Call the Oregon Emergency Management Office at #1-800-452-0311 AND, Within 15 days

Submit a written report of the incident to them at: 595 Cottage Street, N.E. Salem, Oregon 97310

If injuries result in 3 or more people being hospitalized or 1 or more person killed, IMMEDIATELY:

Call the U.S. Occupational Safety and Health Administration or authorized state OSHA agency WITHIN 8 HOURS!

In all cases, as soon as the emergency situation allows, Koppers management in Pittsburgh shall be called. Follow the guidance contained in "Internal Emergency Notification Procedures" for Koppers Industries, Inc. At least one of the following primary contacts in Pittsburgh shall be notified:

Name, Position	Work Phone	Home Phone
Bill Swearingen, Program Manager Mike Juba, Mgr. Health & Safety Randy Collins, Mgr. Loss Control	412/227-2883 412/227-2882 412/227-2456	

### 4.5.3 WHAT SPILLS ARE REPORTABLE?

For hazardous materials, Reportable Quantities (RQ) are specified by the EPA. Additional requirements may be set by some states. The Federal Quantities are:

Creosote	1 pound
Benzo (A) Pyrene	163 lbs. of solid pitch or 15
	gal. of liquid pitch
Dibenzo (A,H)Anthracene	163 lbs. of solid pitch or 15
·	gal. of liquid pitch.

The Clean Water Act also has reporting requirements. Generally if "oil" is released to or presents the potential to be released to navigable waters in amounts that result in a sheen on or discoloration of the water or adjoining shorelines, cause a sludge or emulsion to be deposited beneath the surface of the water or upon the adjoining shorelines, or violates an applicable water quality standard, then it is reportable and the National Response Center must be notified.

Gasoline, lubricating oils, and transmission fluid are all regulated as "oil. Unless released as above, reporting is not mandatory.

### 4.5.4 IF IN DOUBT, REPORT!

If a spill is large enough to require cleanup action but is not reportable, it generally is a good practice to make a courtesy report to the local agency contact. It shows that we are on top of the problem and provide valuable documentation of our response in case of a report by a third party. The attached written report form should also be completed and submitted internally.

Page 1 Form 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT OWNER/OPERATOR: Koppers Industries, Inc.
Plant Name: Portland Plant
Street Addr: 7540 N.W. St. Helens City, St, ZIP: Portland, OR 97210-3663 Phone: 503-286-3681 EPA ID #: ORD 027734359 FACILITY: Same as above DATE OF INCIDENT: \_\_\_\_\_ TIME OF INCIDENT:\_\_\_\_ TYPE OF INCIDENT: Fire, Explosion, Hazardous Material Spill, (Circle One) Hazardous Waste Spill, Injury Accident Other: MATERIALS INVOLVED: Name Ouantity EXTENT OF INJURIES, IF ANY: ASSESSMENT OF ACTUAL OR POTENTIAL HAZARDS TO HUMAN HEALTH OR THE ENVIRONMENT, WHERE APPLICABLE: DISPOSITION OF RECOVERED MATERIAL: Material Ouantity How Disposed or Stored

Page 2

# Form 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

NOTIFICATION LOG	Phone No.	Name of Person	Date/Time Notified
Portland Fire Dept.	911		
Oregon Emergency Man 1-800-452			
National Response Co 1-800-424		<u> </u>	
Oregon OSHA 229-	5910		·
City Duty Officer (For Storm, Sec Conta		)	
Northwest Natural G	as 224-3532		
Wacker Siltronics	243-2020		
Security for FA	AB #1 Ext. 7420		
Security for FA	AB #2 Ext. 4300		
Pacific Northern Fu	els 286-9621		

Page 2a

# Form 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

Environmental Progra	am		
<b>–</b>	412-227-2883 304-737-0627	Bill Swearingen	
ADDITIONAL DESCRIPTI	ON OF INCIDENT	AND ACTIONS TAKEN	(Attach page if
REPORT BY (Name):			DATE
REPORT REVISED:			DATE
REPORT REVISED:			DATE

Page 3

# Table 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

SUPPLEMENTAL INFORMATION REPORT
(This part of report is intended for KII internal use only.)
CLEARLY DESCRIBE HOW INCIDENT OCCURRED:
WHAT ACTS OR CONDITIONS MOST DIRECTLY CAUSED THE INCIDENT:
DESCRIBE ANY RESIDUAL CONTAMINATION OR IMPACT:
ATTACH PHOTOGRAPHS WHICH SHOW INCIDENT AREA, BEFORE AND AFTER RESPONSE ACTIONS. MARK DATE OF PHOTOS. ATTACH ADDITIONAL SHEETS AS NEEDED TO

DESCRIBE INCIDENT AND RESPONSE ACTIONS.

### 4.6 Available Equipment

The following equipment is available at the plant:

Front-end Hydraulic payloaders 1 Pickup Truck Sawdust and sorbents Lift Trucks Portable Pump

The above equipment can be effectively used to control and clean a spill of oil, hazardous material, or hazardous waste. Trucks and tractors can be used to transport and place soil for containment dams, sorbent to soak up spilled liquid, and contaminated soil from cleanup actions. Pumps can be used to pump spilled liquid back into containments. After response action is complete, equipment should be placed on the drip pad or vehicle wash pad and be decontaminated with the steam cleaner prior to being released from the response.

### 4.7 Emergency Response Contract Service

Koppers has entered into a Corporate Agreement with O.H. Materials Corporation to provide various environmental services in the event of an emergency. O.H. Materials has subcontracted this service in the Portland area to Foss Environmental Services, they can be reached at their local number 283-1150, all 24 hours a day.

### 4.8 Fire and Disaster Response Plans

- 4.8.1 This section of the Plan provides additional information on specific response actions to be taken in the event of a major disaster, emergency, or other disruption. Such an event could include:
  - Fire or explosion
  - Earthquake
  - Strike or civil strife.

### 4.8.2 Fire or Explosion

Fire disasters can occur anywhere in the plant environment, so all employees should be knowledgeable as to the proper method for handling all types of fires, and where the largest potential risk areas are located. Communications with and between plant employees is vital to a safe and effective response.

### 4.8.3 Designated Response Stations

In the case of a disaster or other major incident, employees shall secure their work areas and processes and then report to the General Foreman and/or Plant Manager, if they are not directly involved in Emergency Response.

Plant Office Employees stay at office. Coordinate outside calls, inquires, and media contacts.

### 4.8.4 Evacuation

The need for evacuation shall be signalled by a message over the radio to all employees. Employees shall follow the safest path to meet and check in at the closest location outside the property fence, that is considered to be a safe area.

Supervisors shall account for all of their employees, notify the main office when they are "all clear" and relay further instructions. An alternate location will be designated and announced at the time of the incident if the service building is not a safe check-in location.

### 4.8.5 Fire Suppression Systems

<u>Fire Hose and Hose Reels</u> are located at strategic points around the plant. Employees must be familiar with ones within their work areas.

<u>Fire Extinguishers</u> are located throughout the plant and on rolling stock. CO-2 and ABC Dry Chemical types are used exclusively.

### 4.8.6 Civil Strife, Strike

Emergencies resulting from, or shutdowns as a result of, civil strife or strike situations require the control of people entering the plant, both authorized and unauthorized. Local law enforcement agencies can be helpful in achieving this goal, but in-plant security is management's immediate concern. When a total shutdown is planned, and security measures are to be implemented, the following should be observed.

### **Boiler**

- Secure door locks.
- Follow established shutdown procedure.
- Assure that all steam line drains are open.

### <u>Hazardous Waste Storage Facility</u>

- Properly store all hazardous waste drums in facility.
- Lock doors.

### Major Operations

- Secure electrical panels.
- Turn off air compressors, shut valves.
- Store and secure portable tools, cords, hoses, etc.
- Clean up area for safety and fire protection.

### Rolling Stock

- Park centrally in area in front of shop.

### <u>Gates</u>

- Keep locked at all times.
- Put on new locks to prevent unauthorized entry.

### Access Roads

- Blockade with ties or lumber.

### Security Patrols

- At least 2 persons will provide security patrols on shifts,
   24 hours per day.
- Plant vehicles will be provided
- Communication will be maintained at all times between the patrols and the main office by radio.

### Lighting

The plant has general yard lighting system consisting of flood lights, street lights and incandescent lighting. Outdoor lighting is controlled by timers of photo cells.

### 4.9 Medical Emergency Plans

Emergency and first aid supplies are maintained at the following work locations:

Control Room
Maintenance Shop
Main Office (Main supply center)

First aid supplies are intended for use on minor cuts, abrasions, and burns requiring simple care such as band-aids, disinfectant, or ointment. Supplies are also available for the immediate treatment of severe injuries while awaiting professional medical care, such as gauze pads, bandages, and splints.

First aid applied at the plant by plant employees is in no way intended to replace any needed medical attention, but only to help prior to receiving professional treatment.

If a serious injury occurs, assure that an ambulance is called immediately.

### 5.0 STORM WATER POLLUTION PREVENTION PLAN

### 5.1 General

This section of the Plan describes the pollution prevention procedures and facilities for this plant to minimize the impact of storm water runoff to the surrounding environment. This section specifically addresses the requirements of the Storm Water General NPDES Permit.

### 5.2 Pollution Prevention Objectives and Process

All boiler blowdown water and stormwater runoff is collected in our tank farm and is handled under the terms and conditions of our NPDES permit. No discharges are made unless they meet these terms and conditions.

### 6.0 TRAINING

All plant employees shall receive training on the content of this plan. Supervisors will each receive a copy and become thoroughly familiar with it through training, discussion, and self study. Supervisors will train their employees in the overall plan and in the specific needs of their work areas.

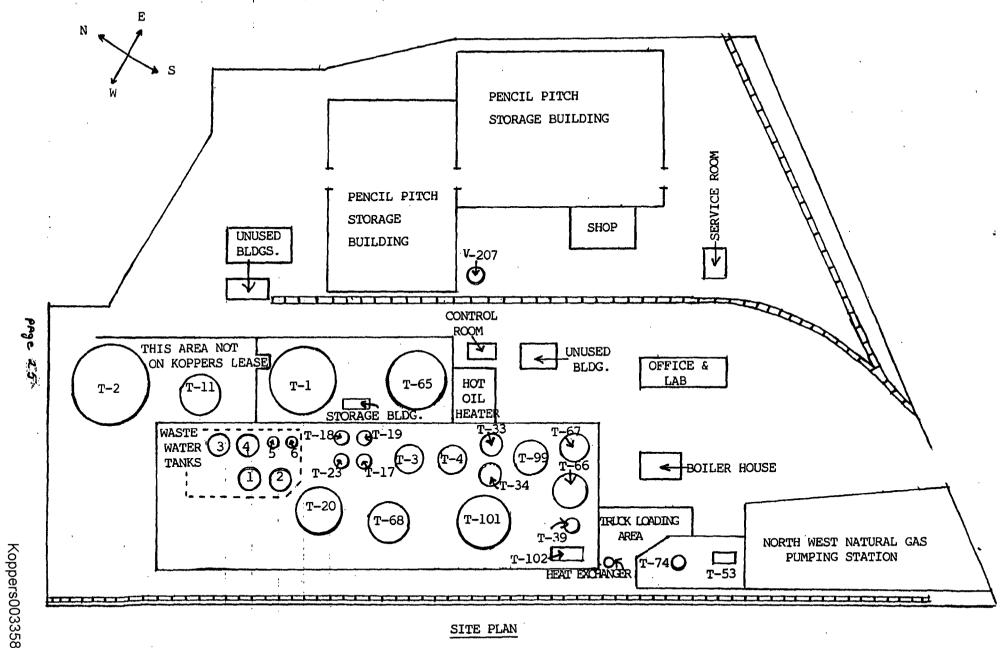
Training will, at a minimum, include programs to ensure that facility personnel understand basic procedures for pollution prevention and good housekeeping and are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, as applicable to each employee's job function:

- \* Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;
- \* Communications and alarm systems;
- \* Response to fires or explosions;
- \* Response to ground-water or surface water contamination incidents;

- \* Shutdown of operations;
- \* Methods for the safe handling of hazardous materials;
- \* Procedures for coordination with local emergency response organizations;
- \* Use and location of medical supplies;
- \* Use of emergency response equipment and supplies appropriate to work areas; and
- \* Emergency response procedures and plans contained within this SPCC and Contingency Plan. Refresher training will be provided at least annually. New employees will not work in unsupervised positions until they have completed all training required for those positions. Supervisors will provide training to their employees and management will assure that supervisors are properly trained.

Employees with specific additional job related training needs will also be given that training, such as hazardous waste handling training as required by RCRA and State regulations, hazardous waste operating procedures for fuel additive to the boiler, storm water pollution prevention, and waste water operations.

This training may be coordinated and take place concurrent with Hazard Communication and RCRA training, safety meetings, and annual updates.



SITE PLAN

CONTINGENCY, SPCC, AND POLLUTION PREVENTION PLAN

KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR

CONTINGENCY PLAN,
SPILL PREVENTION, CONTROL
AND COUNTERMEASURES (SPCC) PLAN
AND

STORM WATER POLLUTION PREVENTION PLAN
KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR
December 7, 1994

### CERTIFICATION

I hereby certify that I have inspected the subject facility, and being familiar with the provisions of 40 CFR 112 for SPCC requirements and 40 CFR 122 for Storm Water Pollution Prevention requirements, attest that this Plan has been prepared in accordance with good engineering practices.

Edward M. Bennett Tar Products Engineer

PENNA. #002433E

Date: 12/20/94

### MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.

s . Kamerer Manager EDWARD M. GOWLETT

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### 1.0 INTRODUCTION

This plan has been developed to; a) provide a basis for planning for and responding to potential spills, accidents, fires, or other contingencies and b) describe and implement practices to minimize and control pollutants in storm water discharges and ensure discharge permit compliance. It includes the requirements for the Contingency Plan as required by the Resources Conservation and Recovery Act (RCRA), the Spill Prevention, Control, and Countermeasures (SPCC) Plan and Storm Water Pollution Prevention Plan (SWPPP) of the Clean Water Act, and the inventory reporting requirements of the Emergency Planning and Community Right-to-Know Act (SARA Title III).

Questions concerning this plan may be directed to:

Amos S. Kamerer Plant Manager (503) 286-3681 T.J. Turner General Foreman (503) 286-3681

### 1.1 FACILITY LOCATION

The Portland plant is located in Multnomah county in the city of Portland, OR. The terminal is located on approximately 6.4 acres of leased property. The property owner is the Northwest Gas company, 220 NW 2nd Ave., Portland, OR, 97209. The portion of the property that Koppers Industries leases is addressed as 7540 N.W. St. Helens Rd., Portland OR, 97210. The property is bounded by St. Helens Rd (Oregon State Highway 30) on the south, the Northwest Natural Gas Company property extending to the shore of the Willamette River on the North, The Northwest Gas Company liquified Natural Gas Plant on the west. A service road separates Koppers property from Wacker Siltronic Corporation, on the eastern boundary. Approximately 10 people are employed at the terminal (4 salaried people, 6 hourly people). Normal operating hours are 4:00 p.m. to 4:30 p.m., Sunday through Friday. Generally, the plant is closed on the weekends.

### 1.2 OPERATION

Coal tar pitch and other related products are shipped into the terminal from our four domestic production plants via tank cars or are imported via bulk cargo ships. These products are then stored or further remanufactured at the terminal, prior to the distribution to our customers. Outbound shipments are then made via tank truck or tank cars.

All products and/or chemicals used or handled through the terminal are covered by material safety data sheets which are on file. All employees have been trained on the usage of these materials and educated in the proper manner of reading and understanding of the material safety data sheets. This training is mandatory and retraining is given annually.

### 1.3 COORDINATED EMERGENCY SERVICES

This plan is written to facilitate the quick and efficient coordination of emergency response actions between Koppers Industries Inc. (Koppers) and any emergency response companies or agencies which may be needed. Copies of this plan, and updates, are provided to the following:

U. S. EPA Region X
Oregon Department of Environmental Quality
Portland Fire Department
Plant Supervisors
City of Portland, Environmental Services Dept.

Instructions on how and when to obtain assistance for emergency situations, including agency and contractor phone numbers, are included in section 4 of this plan.

### 1.4 SPCC AND SWPPP PLAN MAINTENANCE

This Plan must be kept up to date. Notify Koppers' Environmental Program Manager in the event of any change made. Automatic review, evaluation and recertification by a Professional Engineer is required once every three years from the date of the latest certification. This Plan must also be amended whenever there is a change in design, construction, operation or maintenance which materially affects the facility's potential for discharge, and the amendment fully implemented as soon as possible and no later than within six months.

A copy of this Plan is to be maintained in the plant's main office and the plant's melter control room.

Notify the Environmental Program Manager if any amendment needs to be made to this Plan.

### 2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

### 2.1 Discussion

Various materials are used at the Koppers facility which are considered hazardous based on the toxicity or flammability of the materials. These include preservatives which are used in the industrial processes to pressure treat wood products, unusable waste products from these processes, boiler water treatment chemicals, and fuel and lubricants for plant vehicles and equipment.

### 2.2 Business Information and Identification

The following information applies to the Koppers Industries Portland Plant:

Business Name: Koppers Industries, Inc.

Business Phone: (503) 286-3681

Owner: Koppers Industries, Inc.

436 Seventh Ave.

Pittsburgh, PA 15219

Operator: Same as owner.

SIC Code: 2865

EPA ID Number: ORD 027734359

Site Address: 7540 N.W. St. Helens Rd.

Portland, OR 97210

Mail Address: same as above

Type of Business: Creosote, Refined Tars and Coal Tar Pitch

Terminal

### 2.3 Emergency Contacts/Emergency Coordinators

### Name/Address Title Home Phone

Amos S. Kamerer Plant Manager
5912 S.W. Knights Bridge Dr. Portland, OR 97219

T.J.Turner General Foreman 17815 N.E. 152nd Ave. Brush Prairie, WA 98606

### 2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

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Pitch Terminal

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Name/Address Title Home Phone

Amos S. Kamerer Plant Manager 5912 S.W. Knights Bridge Dr. Portland, OR 97219

T.J.Turner General Foreman 17815 N.E. 152nd Ave. Brush Prairie, WA 98606

The above people can normally be reached during work hours at the business phone number, (503) 286-3681. Additionally, the night shift operator (when there is a night shift) can be reached at (503) 286-3681.

The plant manager is the Primary Emergency Coordinator and should be contacted first. If he is not available, the others should be called, in the order listed, until someone is reached. The Primary Emergency Coordinator and alternates have complete authority to commit all necessary resources of the company in the event of an emergency.

During off shifts, holidays, and weekends, the shift foreman will be the acting Emergency Coordinator. During these times, the shift foreman will notify the Emergency Coordinator, above, who will assume responsibility for implementation upon his arrival at the plant. Also on nights, weekends and holidays when there is no shift work occuring the plant is patrolled by N.W. Natural Gas guards who make rounds of the plant hourly. The guards have been provided a list of emergency phone numbers to call in case of a problem.

Phone numbers for Koppers Industries Corporate Contacts are provided on Page 14.

#### 2.4 Hazardous Materials Inventory

The primary hazardous materials which are used or stored on the Koppers site are listed by tank in Table 3.7, Tank Listings Table (page 9). The tanks and facilities are shown on the site map by number or name.

#### 3.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURES

#### 3.1 Description

This section of the Plan provides information specific to the storage and handling of hazardous liquids, spill prevention and containment equipment, and countermeasures to be implemented to control the impact of a spill. The Tank Listings Table, Table 3.7, lists all the tanks used at the Koppers plant by number along with their name, contents, and capacity. Locations can be found for processes and tanks on the site map.

#### 3.2 Conformance with SPCC Standards and Guidelines

This facility meets the minimum requirements for diversionary structures and equipment to prevent discharged oil or hazardous substances from reaching navigable waters as required by 40 CFR 112.7(c) by providing secondary containment for all major tanks and process equipment.

The Portland plant is in conformance with the applicable guidelines of 40 CFR 112.7(e). Rainwater is collected, stored and then inspected prior to discharge. Tank installations are equipped with secondary containment and are regularly inspected by operators. The creosote tank car unloading station is top unloading. Spill prevention details for equipment and processes are discussed more fully below.

#### 3.3 Inspections and Security

The operational areas in the plant are checked hourly by the operator on duty throughout each shift. The tank area is routinely checked by the operator on duty. Any problems or unusual circumstances which can not be immediately resolved are reported to the Supervisor.

#### 3.4 General Plant Spill Prevention

A hazardous material spill can occur any place, any time. All employees must be prepared to respond immediately to control damage and to notify management. Containing a spill to the smallest area possible is the first step.

Containments can quickly be constructed using available equipment and supplies; usually by placing dirt, sand, or sawdust around the lower side of a spill with Koppers loaders. If possible, a spill should be prevented from reaching the surface water drainage, where it will spread more rapidly and have greater environmental and health impact.

Loading operations should be supervised by employees familiar with the equipment involved. Buckets or pans should be placed under hose connections to collect drips. Be prepared for hoses and pipes to be full and for liquid to be behind valves. Properly and promptly cleanup any drips or spills. Supervisors must be notified of any spills which are outside of containments. Oil, creosote, and other hazardous material deliveries are made by vehicles complying with DOT spill control regulations. Unloading is supervised by plant operators.

systems. Collection pans should first be readily available. Collected material must be returned to the processes or be properly containerized for disposal.

#### 3.5 Surface Drainage

The plant property is at 37' above sea level and our outfall for pumping off the collected storm runoff is located on the very south eastern tip of the property approximately 10' ft. elevation above a creek that flows to the Willamette River.

In the Portland terminal there are two run-off patterns for site drainage. The first is directly in front of the office and away from any creosote, tar handling or process area. This area would not be threatened by a spill. All other run-off channels from the tank farm, into a concrete storm run-off sump. Dual sump pumps (one operating and one standby) lift the run-off into the waste water storage tanks #1, #2, #3, #4, #5 and #6. When these tanks fill they are sampled and the samples are taken to an Oregon Department of Environmental Quality approved laboratory for analysis. Then, in accordance with the rules governing our N.P.D.E.S. permit, the samples are checked for temperature, P.H., oil and grease content and phenol content. When the laboratory reports the results and it is certified that the water in the waste water tanks is within the parameters allowed in the N.P.D.E.S. permit, the water is pumped to the out-fall and into the creek that flows into the Willamette River.

Equipment, including secondary spill containment, has been installed and procedures implemented to prevent oil or hazardous materials from leaving the plant. A spill is most likely to occur in the process area and if not contained, would drain into the ditch.

Koppers has installed extensive paving at the heat exchanger location including paving between the rail tracks and the loading area for trucks. In addition, a below grade sealed concrete sump was installed as a catch basin. This catch basin has approximately 1500 gallon capacity. Also two sump pumps have been installed. The first pump, manually activated, pumps collected storm water to the storm water runoff collection system for further handling.

The second pump is energized only when we are unloading creosote rail cars. This pump is on a float activated switch and is piped to #39 tank, which is now designated as the emergency response tank at this location. Tank #39 is of sufficient capacity to hold the gallonage of a full tank car if needed, 20,000 gallons. It is the duty of the loading/unloading employee to clear the catch basin of water, then open the valve to 39 tank and emergize the automatic pump. In this way, should a creosote spill occur, all precautions are in place to contain the release.

In the case of a spill in which hazardous materials or oils reach either of the drainage ditches, immediate action must be taken to contain the spill. Temporary earth dams should be constructed using plant equipment along the ditches, creating a series of impoundments to contain the flow. Sorbent booms may be used to remove containments from the water held behind the dams, if needed.

These dams can only hold back a limited amount of water, so emergency help should be contacted at the first sign that such a spill has occurred or may occur.

## 3.6 Tank Car and Truck Unloading

Tank cars are unloaded at the Unloading Station, where the process transfer pipelines are all above ground. The potential spill sources in this area include leaks from the process tanks, valves, pumps, and pipe systems. These leaks can best be prevented by proper valve and pump maintenance and equipment inspection during creosote transfers. Any leaks or drips must be cleaned up immediately.

As part of the operating procedures, drains and outlets on tank trucks and tank cars are checked for leakage before and after each loading and unloading operation. Operations personnel performing loading and unloading activities are instructed to inspect piping and pumps associated with these activities and to report spills or leakage.

The driver performs a visual inspection of the truck and trailer after each loading and prepares a Driver Vehicle Inspection Report which is filed and if repairs are needed the truck is shopped for repairs.

The operating procedures included in this plan form the basis for the training of operations personnel in the prevention of creosote or coal tar discharge. Job positions within the Portland plant require that new personnel, working in unfamiliar process areas will have a senior experienced employee to guide them. Personnel are also instructed in the operation and maintenance of equipment to prevent discharges.

#### 3.7 Tank Farm

All preservative tanks are in the concrete-wall-lined and earth-diked tank farm. Containment capacity of approximately 2,900,000 gallons is provided.

# Table 3.7 TANK LISTING TABLE Koppers Industries, Portland Plant

Tank No.	<u>Contents</u>	Size	Capacity (000) (Gallons)
1. 2. 3. 4. 11.		sote	660 M 1065 M 99 M 99 M 254 M 57 M
13. 17. 18. 19. 20.	Heavy OilBottoms EmptyOut of Service Priming & Refractory O		20 M 20 M 20 M 20 M 317 M
23. 27. 33. 34.	Lite Unc. Bottoms EmptyOut of Service Heavy OilPitch & Cro	eosote	20 M 20 M 45 M 45 M 20 M
53.	Empty-out of service Melter Pitch Empty-out of service Creosote		10 M 761 M 191 M 102 M 245 M
74. 99. 101.	Empty-out of serive		245 M 20 M 209 M 758 M
# WW # WW # WW # WW # WW	Water-Effluent Water-Effluent Water-Effluent Water-Effluent		45 M 45 M 45 M 45 M 20 M 20 M
V 20	Empty-out of ser	vice .	

# 3.8 Fuel and Lubricating Oil

Lubricating oil is stored in 55-gallon drums, most of which are store in the oil house building. Drums should be stored upright and kept sealed. Dispensing areas should be kept clean. Oil drippage should be contained. Any minor spills should be cleaned up immediately.

# 3.9 Hazardous Waste Storage Facilities

All hazardous waste that is in process is stored in drums in the rear storage area of the maintenance building. Once full, the drum or drums are disposed of through RCRA approved facilities.

#### 4.0 EMERGENCY RESPONSE PROCEDURES

#### 4.1 General

This section of the Plan describes the actions that are to be taken by Koppers personnel in response to any injury, accident, fire, explosion, or unplanned release of any hazardous material to the air, soil, or water.

#### 4.2 Emergency Coordination

As soon as an emergency situation is discovered by an employee, that person shall quickly estimate the extent the problem, take safe and appropriate control action, and then notify the plant management immediately. Once notification list is Section 2.3, page 4, who is present will assume the responsibilities of <a href="Emergency Coordinator">Emergency Coordinator</a> (EC). Other personnel will respond as a team under the direction of the E as needed based on the type of emergency, individual skills, and plant responsibilities.

The E has Koppers Industries' commitment to spill prevention and response and has the authority to commit plant employees and contract labor and equipment to response actions and to purchase needed supplies. The E is responsible for the appropriate implementation of this plan in an emergency.

Effective communication is vital in any emergency response. All plant employees have portable two-way radios which will be used for communication and coordination between the plant offices and yard areas. Phones may also be used between offices.

#### 4.3 Immediate Response

As soon as an employee discovers an emergency situation, he shall quickly determine the extent of the problem. If a simple action can be taken to control a release or other emergency, such as shutting a valve to stop the flow from a ruptured pipe and can be done safely, then the control action should be completed first. If there is no simple, safe control action or after taking such action the person shall immediately notify the plant management and any other personnel who may be endangered by the incident by phone or radio.

#### 4.4 Response Procedures

- 4.4.1 Upon discovery or notification that an emergency exists, the EC, assisted by the management team, shall:
  - Determine the extent of the emergency,
  - Implement plant evacuation, if needed, to prevent injury,
  - Call for outside assistance as needed,
  - Start immediate control actions,
  - Implement cleanup or other responses,
  - Notify local, state, and federal agencies as required,
  - Notify Koppers Pittsburgh office,
  - Assure completion of cleanup,
  - Provide for storage of cleanup material, inc. hazardous waste,
  - Evaluate possible hazards to human health or environment,
  - Make a final written incident report.

Many of these actions may occur concurrently.

- 4.4.2 Whenever there is an imminent or actual emergency situation, the emergency coordinator, or his designee, shall:
  - Immediately call by radio or phone to notify all facility personnel;
    - Immediately notify appropriate federal, state, and/or local agencies with designated response roles if their help is needed;
    - Make other notifications as stated in Section 3.5, Emergency Notifications.
- 4.4.3 Whenever there is a release, fire, or explosion, the emergency coordinator shall immediately identify the character, exact source, amount, and area extent of any released materials. This may be done by observation or review of facility records or manifests and, if necessary, by chemical analysis. Form 4.1 should be used to document the information needed for notifications.
- 4.4.4 Concurrently, the Emergency Coordinator shall assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment shall consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).

4.4.5 If the Emergency Coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, outside of the facility, or if the released amount of hazardous or extremely hazardous material exceeds the Reportable Quantity (RQ), the findings shall be immediately reported to the National Response Center as in Section 4.5, Emergency Notifications.

Note that the reportable quantities for materials are listed in Section 4.5.

- If his assessment indicates that evacuation of local areas <u>may</u> be advisable, appropriate local authorities shall be notified immediately. The Emergency Coordinator shall be available to help appropriate officials decide whether local areas should be evacuated.
- 4.4.6 During an emergency, the Emergency Coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes or materials at the plant. These measures could include turning water sprays onto tanks, stopping and isolating processes, shutting off power to areas, collecting and containing released materials, or moving and isolating other containers.
- 4.4.7 If some or all operations are stopped in response to an emergency, the emergency coordinator shall monitor tanks, pipes, valves, and other process equipment for leaks, pressure build-up or ruptures wherever appropriate.
- 4.4.8 Immediately after an emergency, the Emergency Coordinator shall provide for treating, storing, or disposing of recovered materials or wastes, contaminated soil, surface water, or any other material that results from a release, fire, or explosion.
- 4.4.9 Before resuming operations, the Emergency Coordinator shall:
  - a. Insure that clean-up is complete to the point that operations will not interfere or create further potential for hazardous waste release,
  - b. Insure that all emergency equipment is cleaned and fit for use, and
  - c. If hazardous wastes or a hazardous waste unit has been involved, then advise the Dept. of Environmental Quality and EPA Region X that Steps a. and b. above are complete.

4.4.10 If hazardous wastes or a hazardous waste unit has been involved, the Emergency Coordinator shall submit a written report within 15 days of the incident to the Dept. of Environmental Quality. Form 4.1, completed, may fulfill this purpose or will at least provide a basis for the report. A copy of the completed report shall be maintained in the Operating Record.

## 4.5 Emergency Notifications

4.5.1 The emergency coordinator shall ensure that the necessary notifications are made. Form 4.1 entitled, "Emergency and/or Hazardous Materials Incident Report" is to be used. Page one is organized to provide all the information needed for the initial verbal notification of the National Response Center or other agencies. As soon as a spill or other incident is discovered, the supervisor/manager who will do the reporting should begin filling in the information.

Page 2 should be used as a log of notifications made. Get the position and name of the person who accepts the phone notifications. Also, if an incident number is assigned, as by the National Response Center, that number should be recorded. As more is learned about the incident, the report should be updated. Updates can be recorded on page 2 as well.

Pages 1 and 2, completed either by hand or typed, can be used for the required written notification of agencies. These should be sent with cover letters showing everyone who will get copies. Copies must be kept in the plant's Operating Record.

Finally, page 3 should be used for Koppers Industries internal reporting of additional related information. KII has an obligation to report all spills which could possibly impact over-all cleanup work. The complete report, Pages 1, 2, and 3 should be sent to W.E. Swearingen, Environmental Program Manager including original photographs. He will provide the required notification to Beazer East, Inc.

4.5.2 WHAT SPILLS OR INCIDENTS MUST BE REPORTED AND TO WHOM?

Following is a summary. Note that more than one category may apply.

#### If outside help is needed. IMMEDIATELY:

Call fire and/or other appropriate emergency agencies, describe incident and needed assistance, such as fire suppression, medical aid, evacuation, and/or crowd control.

# If release or threatened release of hazardous material. IMMEDIATELY:

Call 911-for immediate help, then call both the Oregon Emergency Management Office at 1-800-452-0311 and the National Response Center at 1-800-424-8802. This report shall be made unless it is determined that the release poses no significant hazard to human health and safety, property, or the environment and is less than the reportable quantity for the material.

Such releases which cannot be recovered must also be included in the SARA Title III annual reports.

#### If health threat or release outside of facility: OR

If the release results in or has the potential to cause an oil sheen on or discoloration of runoff water; OR

If release of hazardous or extremely hazardous material exceeds the Title III Reportable Ouantity, IMMEDIATELY:

All National Response Center at 800-424-8802.

If the release results in or has the potential to reach the City Storm or Sanitary Sewer drains, IMMEDIATELY:

Call the Duty Officer at 823-7180

If hazardous waste or a hazardous waste unit is involved OR if the plant contingency plan is implemented; IMMEDIATELY AND NOT LATER THAN 24 HOURS:

Call the Oregon Emergency Management Office at #1-800-452-0311 AND. Within 15 days

Submit a written report of the incident to them at: 595 Cottage Street, N.E. Salem, Oregon 97310

If injuries result in 3 or more people being hospitalized or 1 or more person killed, IMMEDIATELY:

Call the U.S. Occupational Safety and Health Administration or authorized state OSHA agency **WITHIN 8 HOURS!** 

In all cases, as soon as the emergency situation allows, Koppers management in Pittsburgh shall be called. Follow the guidance contained in "Internal Emergency Notification Procedures" for Koppers Industries, Inc. At least one of the following primary contacts in Pittsburgh shall be notified:

Name, Position		Work Phone	Home Phone
Bill Swearingen, Program Mike Juba, Mgr. Health & St. Randy Collins, Mgr. Loss	Safety	412/227-2883 412/227-2882 412/227-2456	

# 4.5.3 WHAT SPILLS ARE REPORTABLE?

For hazardous materials, Reportable Quantities (RQ) are specified by the EPA. Additional requirements may be set by some states. The Federal Quantities are:

Creosote	1 pound
Benzo (A) Pyrene	163 lbs. of solid pitch or 15
	gal. of liquid pitch
Dibenzo (A, H) Anthracene	163 lbs. of solid pitch or 15
	gal. of liquid pitch.

The Clean Water Act also has reporting requirements. Generally if "oil" is released to or presents the potential to be released to navigable waters in amounts that result in a sheen on or discoloration of the water or adjoining shorelines, cause a sludge or emulsion to be deposited beneath the surface of the water or upon the adjoining shorelines, or violates an applicable water quality standard, then it is reportable and the National Response Center must be notified.

Gasoline, lubricating oils, and transmission fluid are all regulated as "oil. Unless released as above, reporting is not mandatory.

#### 4.5.4 IF IN DOUBT, REPORT!

If a spill is large enough to require cleanup action but is not reportable, it generally is a good practice to make a courtesy report to the local agency contact. It shows that we are on top of the problem and provide valuable documentation of our response in case of a report by a third party. The attached written report form should also be completed and submitted internally.

Page 1 Form 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT OWNER/OPERATOR: Koppers Industries, Inc.
Plant Name: Portland Plant
Street Addr: 7540 N.W. St. Helens City, St, ZIP: Portland, OR 97210-3663 Phone: 503-286-3681 EPA ID #: ORD 027734359 FACILITY: Same as above DATE OF INCIDENT: \_\_\_\_\_ TIME OF INCIDENT:\_\_\_\_\_ TYPE OF INCIDENT: Fire, Explosion, Hazardous Material Spill, (Circle One) Hazardous Waste Spill, Injury Accident Other: MATERIALS INVOLVED: <u>Name</u> <u>Ouantity</u> EXTENT OF INJURIES, IF ANY: ASSESSMENT OF ACTUAL OR POTENTIAL HAZARDS TO HUMAN HEALTH OR THE ENVIRONMENT, WHERE APPLICABLE: DISPOSITION OF RECOVERED MATERIAL: Material Quantity How Disposed or Stored

Page 2

# Form 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

NOTIFICATION LOG			
Agency	Phone No.	Name of Person	Date/Time Notified
Portland Fire Dept.	911		
Oregon Emergency Mar 1-800-452			
National Response Co 1-800-424		•	
Oregon OSHA 229-	5910		
City Duty Officer (For Storm, Sec		)	
Northwest Natural G	as 224-3532		
Wacker Siltronics	243-2020		
Security for F	AB #1 Ext. 7420		
Security for F	AB #2 Ext. 4300	:	
Pacific Northern Fu	els 286-9621		

Page 2a

# Form 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

Environmental Progra	am		
Manager - KII or Home:	412-227-2883 304-737-0627	Bill Swearingen	
ADDITIONAL DESCRIPT needed):	ION OF INCIDENT	AND ACTIONS TAKEN (Attach	page if
REPORT BY (Name): REPORT REVISED:		]	DATE

Page 3

# Table 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

SUPPLEMENTAL INFORMATION REPORT
(This part of report is intended for KII internal use only.)
CLEARLY DESCRIBE HOW INCIDENT OCCURRED:
WHAT ACTS OR CONDITIONS MOST DIRECTLY CAUSED THE INCIDENT:
· · · · · · · · · · · · · · · · · · ·
DESCRIBE ANY RESIDUAL CONTAMINATION OR IMPACT:
·
•

ATTACH PHOTOGRAPHS WHICH SHOW INCIDENT AREA, BEFORE AND AFTER RESPONSE ACTIONS. MARK DATE OF PHOTOS. ATTACH ADDITIONAL SHEETS AS NEEDED TO DESCRIBE INCIDENT AND RESPONSE ACTIONS.

## 4.6 Available Equipment

The following equipment is available at the plant:

Front-end Hydraulic payloaders 1 Pickup Truck Sawdust and sorbents Lift Trucks Portable Pump

The above equipment can be effectively used to control and clean a spill of oil, hazardous material, or hazardous waste. Trucks and tractors can be used to transport and place soil for containment dams, sorbent to soak up spilled liquid, and contaminated soil from cleanup actions. Pumps can be used to pump spilled liquid back into containments. After response action is complete, equipment should be placed on the drip pad or vehicle wash pad and be decontaminated with the steam cleaner prior to being released from the response.

#### 4.7 Emergency Response Contract Service

Koppers has entered into a Corporate Agreement with O.H. Materials Corporation to provide various environmental services in the event of an emergency. O.H. Materials has subcontracted this service in the Portland area to Foss Environmental Services, they can be reached at their local number 283-1150, all 24 hours a day.

# 4.8 Fire and Disaster Response Plans

- 4.8.1 This section of the Plan provides additional information on specific response actions to be taken in the event of a major disaster, emergency, or other disruption. Such an event could include:
  - Fire or explosion
  - Earthquake
  - Strike or civil strife.

#### 4.8.2 Fire or Explosion

Fire disasters can occur anywhere in the plant environment, so all employees should be knowledgeable as to the proper method for handling all types of fires, and where the largest potential risk areas are located. Communications with and between plant employees is vital to a safe and effective response.

# 4.8.3 Designated Response Stations

In the case of a disaster or other major incident, employees shall secure their work areas and processes and then report to the General Foreman and/or Plant Manager, if they are not directly involved in Emergency Response.

Plant Office Employees stay at office. Coordinate outside calls, inquires, and media contacts.

#### 4.8.4 Evacuation

The need for evacuation shall be signalled by a message over the radio to all employees. Employees shall follow the safest path to meet and check in at the closest location outside the property fence, that is considered to be a safe area.

Supervisors shall account for all of their employees, notify the main office when they are "all clear" and relay further instructions. An alternate location will be designated and announced at the time of the incident if the service building is not a safe check-in location.

#### 4.8.5 Fire Suppression Systems

<u>Fire Hose and Hose Reels</u> are located at strategic points around the plant. Employees must be familiar with ones within their work areas.

<u>Fire Extinguishers</u> are located throughout the plant and on rolling stock. CO-2 and ABC Dry Chemical types are used exclusively.

#### 4.8.6 Civil Strife, Strike

Emergencies resulting from, or shutdowns as a result of, civil strife or strike situations require the control of people entering the plant, both authorized and unauthorized. Local law enforcement agencies can be helpful in achieving this goal, but in-plant security is management's immediate concern. When a total shutdown is planned, and security measures are to be implemented, the following should be observed.

#### Boiler

- Secure door locks.
- Follow established shutdown procedure.
- Assure that all steam line drains are open.

#### Hazardous Waste Storage Facility

- Properly store all hazardous waste drums in facility.
- Lock doors.

#### Major Operations

- Secure electrical panels.
- Turn off air compressors, shut valves.
- Store and secure portable tools, cords, hoses, etc.
- Clean up area for safety and fire protection.

#### Rolling Stock

- Park centrally in area in front of shop.

# <u>Gates</u>

- Keep locked at all times.
- Put on new locks to prevent unauthorized entry.

#### Access Roads

- Blockade with ties or lumber.

#### Security Patrols

- At least 2 persons will provide security patrols on shifts,
   24 hours per day.
- Plant vehicles will be provided
- Communication will be maintained at all times between the patrols and the main office by radio.

#### Lighting

The plant has general yard lighting system consisting of flood lights, street lights and incandescent lighting. Outdoor lighting is controlled by timers of photo cells.

## 4.9 Medical Emergency Plans

Emergency and first aid supplies are maintained at the following work locations:

Control Room Maintenance Shop Main Office (Main supply center)

First aid supplies are intended for use on minor cuts, abrasions, and burns requiring simple care such as band-aids, disinfectant, or ointment. Supplies are also available for the immediate treatment of severe injuries while awaiting professional medical care, such as gauze pads, bandages, and splints.

First aid applied at the plant by plant employees is in no way intended to replace any needed medical attention, but only to help prior to receiving professional treatment.

If a serious injury occurs, assure that an ambulance is called immediately.

#### 5.0 STORM WATER POLLUTION PREVENTION PLAN

# 5.1 General

This section of the Plan describes the pollution prevention procedures and facilities for this plant to minimize the impact of storm water runoff to the surrounding environment. This section specifically addresses the requirements of the Storm Water General NPDES Permit.

#### 5.2 Pollution Prevention Objectives and Process

All boiler blowdown water and stormwater runoff is collected in our tank farm and is handled under the terms and conditions of our NPDES permit. No discharges are made unless they meet these terms and conditions.

#### 6.0 TRAINING

All plant employees shall receive training on the content of this plan. Supervisors will each receive a copy and become thoroughly familiar with it through training, discussion, and self study. Supervisors will train their employees in the overall plan and in the specific needs of their work areas.

Training will, at a minimum, include programs to ensure that facility personnel understand basic procedures for pollution prevention and good housekeeping and are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, as applicable to each employee's job function:

- \* Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;
- \* Communications and alarm systems;
- \* Response to fires or explosions;
- \* Response to ground-water or surface water contamination incidents;

- \* Shutdown of operations;
- \* Methods for the safe handling of hazardous materials;
- \* Procedures for coordination with local emergency response organizations;
- \* Use and location of medical supplies;
- \* Use of emergency response equipment and supplies appropriate to work areas; and
- \* Emergency response procedures and plans contained within this SPCC and Contingency Plan. Refresher training will be provided at least annually. New employees will not work in unsupervised positions until they have completed all training required for those positions. Supervisors will provide training to their employees and management will assure that supervisors are properly trained.

Employees with specific additional job related training needs will also be given that training, such as hazardous waste handling training as required by RCRA and State regulations, hazardous waste operating procedures for fuel additive to the boiler, storm water pollution prevention, and waste water operations.

This training may be coordinated and take place concurrent with Hazard Communication and RCRA training, safety meetings, and annual updates.

SITE PLAN



Amos S. Kamerer
Plant Manager

Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-285-2831

December 22, 1994

Environmental Protection Agency Region X 1200 Sixth Ave. Seattle, WA 98101

Ref: Spill Prevention, Control, and Countermeasures Plan

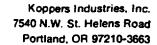
Dear Sirs:

As per our company policy, enclosed please find a copy of our revised SPCC plan for your files. Should you have any questions or comments, please feel free to contact me at any time.

mos S. Kamerer

Plant Manager

bcc: W. E. Swearingen





Amos S. Kamerer Plant Manager Telephone: 503-266-3681 Fax: 503-265-2831

December 22, 1994

Mr. Bill Henle Hazardous Materials Coordinator Portland Fire Bureau 4800 NE 122nd Ave. Portland, OR 97230

Ref: Spill Prevention, Control, and Countermeasures Plan

Dear Mr. Henle:

As per our company policy, enclosed please find a copy of our revised SPCC plan for your files. Should you have any questions or comments, please feel free to contact me at any time.

Sincerely

mos S. Kamerer Plant Manager

bcc: W. E. Swearingen



Amos S. Kamerer

Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-285-2831

December 22, 1994

MR. Stephen Rosenberger
Ms. Christina K. Anderson
City of Portland
Environmental Services
1120 SW Fifth Ave., Room 400
Portland, OR 97204-1972

Ref: Wastewater Discharge permit #314-001

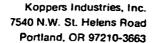
Dear Ms. Anderson:

As part of the requirements of the above permit, enclosed please find a copy of our revised Spill Prevention, Control, and Countermeasures Plan. If you have any questions, please feel free to contact me at any time.

Sincerely.

Amos S. Kamerer Plant Manager

cc: W. E. Swearingen, KII





Amos S. Kamerer Plant Manager Telephone: 503-286-3681 Fax: 503-285-2831

December 22, 1994

Mr. Elliot Zais Dept. of Environmental Quality 2020 SW Fourth Ave., 4th Floor Portland, OR 97201

Ref: Spill Prevention, Control, and Countermeasures Plan

Dear Mr. Zais:

As per our company policy, enclosed please find a copy of our revised SPCC plan for your files. Should you have any questions or comments, please feel free to contact me at any time.

Sincerely.

Amos S. Kamerer Plant Manager

bcc: W. E. Swearingen



#### Department of Environmental Quality

Northwest Region Portland Office 2020 SW 4<sup>th</sup> Avenue, Suite 400 Portland, OR 97201-4987 (503) 229-5263 FAX (503) 229-6957 TTY (503) 229-5471

5 October 2006

Christopher Rich Perkins Coie 1120 NW Couch St., 10<sup>th</sup>. Floor Portland OR 97209

RE: Koppers Inc. NPDES Permit Renewal, Permit 101642

Dear Mr. Rich:

This letter is in response to your October 25, 2005 letter.

#### 1. Rationale for Effluent Limitations

# A. Proposed Permit Limits

Polycyclic Aromatic Hydrocarbons (PAH) Limits: I performed reasonable potential analyses (RPA) based on EPA's Technical Support Document For Water Quality-based Toxics Control. There are no approved fresh acute and fresh chronic water quality criteria for any PAHs. The values used for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and dibenzo(ah)anthracene are from OAR 340-041 Table 33A. PAH values in Table 33A were adopted by the Environmental Quality Commission and are more stringent than the old standards as no criteria were contained in Table 20 except for total PAH. The EQC-adopted criteria have not been approved by EPA but we have been instructed to implement the more stringent criteria. RPA spreadsheets assuming Koppers discharges to Doane Creek and to the Willamette River show reasonable potential to exceed limits for several polycyclic aromatic hydrocarbons. Based on these results, we believe it is appropriate to set effluent limits.

Benzene and BTEX Limits: The Department established the technology-based limits for benzene and BTEX for the 1995 renewal of the 1500A general permit. The limits were based on reported experience by permittees. The limits assumed the availability of at least 10 to 1 dilution in the receiving stream. Koppers's discharge ends up in the Willamette and will meet this criterion. The limits assume that an ordinary properly operating treatment system is in place. BTEX has been detected in Koppers's discharge at high enough levels to warrant permit requirements.

Cyanide: The Department has decided to monthly average and daily maximum limits for cyanide based on a reasonable potential analysis.

The permit does not authorize the discharge of contaminated groundwater. The analyses of Koppers's discharge show distinct similarities to groundwater samples collected on site. These pollutants need to be dealt with in some manner because they are known to be present. The choices that we see are 1) setting permit limits or 2) disallowing the discharge.

#### B. Application of Cleanup Standards to NPDES Discharges



In addition to the Department review and evaluation of updated criteria for discharge limits in the subject permit, DEQ also considered the location of Koppers NPDES discharge to Doane Creek.

This reach of Doane Creek has limited water flow and gradient with a reasonable potential for deposition and accumulation of contaminants present in the Koppers NPDES discharge.

This reach of Doane Creek has been identified by the U.S. Army Corps of Engineers as a potential candidate for habitat restoration for threatened and endangered salmonid recovery.

This reach of Doane Creek is part of the NW Natural Gasco, Siltronic and Rhone Poulenc cleanup sites and has been determined to be sensitive habitat for the purposes of ecological risk assessments that are both pending and in progress. Based on available remedial investigation data from the Siltronic site, Doane Creek and the Northwest Drainage Pond, DEQ anticipates that remedial measures to protect this sensitive habit will be required for many of the contaminants present in the Koppers' NPDES discharge. Discharge limits for many of the contaminants in the current NPDES Permit exceed the DEQ Level II screening values that the DEQ Cleanup Program uses to evaluate risk to ecological receptors. These values can be found at

# http://www.deq.state.or.us/wmc/documents/eco-2slv.pdf.

Consequently, there is potential for the Koppers discharge to contribute to risk associated with contaminants in Doane Creek sediments and surface water and to confound or exacerbate future remedial measures.

Doane Creek is routed through a City of Portland storm sewer pipe prior to its discharge to the Willamette River. Monitoring of effluent at the outfall and within Doane Creek has shown exceedances of the <u>Interim Final Joint Source Control Strategy</u> (JSCS) screening level values for many of the contaminants present in the Koppers NPDES discharge.

In February 2001, DEQ, the United States Environmental Protection Agency (EPA) and other government parties signed a Memorandum of Agreement (MOU) that provided a framework for coordination and cooperation in the Portland Harbor Surperfund Site. Under the MOU, DEQ, using state cleanup authority, has the lead technical and legal responsibility for the upland contamination and for coordinating with EPA on upland contamination which may impact the Willamette River. Koppers's NPDES discharge is a source of contaminants to the Willamette River and the Portland Harbor. In reviewing the Koppers NPDES discharge limits, DEQ did consider whether they would meet the objectives for upland source control under the MOU and the JSCS. DEQ considered this less burdensome to Koppers than issuing a Cleanup Program Order for source control or adding Koppers to the existing Remedial Investigation Feasibility Study Agreement with NW Natural for the Koppers/Gasco site.

Northwest Natural is not currently under a specific cleanup order or plan to pump and treat contaminated groundwater from the site. However, groundwater beneath the Koppers facility is



heavily contaminated, and the evaluation of remedial measures to control the migration of the impacted groundwater to the Willamette River and any upland risks is in progress.

Cyanide, benzene and naphthalene are signature contaminants for contaminated groundwater at the Gasco site. These compounds were recently detected by Koppers in their monitoring of their NPDES discharge. Equivalent levels of benzene and naphthalene would not, in DEQ's opinion, be anticipated to be present in stormwater from the Koppers site. It is likely that Koppers is pulling contaminated groundwater from the sumps in the tank basin when they pump them. DEQ did not evaluate the overall PAH signature in groundwater at the Gasco site when it drew this conclusion. Groundwater data from the Koppers area is presented in the October 9, 1998 Phase I Remedial Investigation Summary Report prepared by Hahn and Associates for the Gasco site. Additional groundwater data may be presented in the quarterly project progress reports provided by NW Natural. Please contact Dawn Weinberger at (503) 229-6792 if you would like to review these reports or to arrange to make copies of them. Alternatively, a request to NW Natural to provide a summary of groundwater data beneath the Koppers facility is another option.

# 2. Additional Permit Limits and Monitoring

The pollutants we are proposing to monitor appear in Koppers's discharge as shown in the analyses provided for this permit renewal. Additional monitoring is being proposed because these pollutants appear in the discharge and Koppers is responsible for the content of their discharge. The relationship of these pollutants to stormwater is irrelevant. If they are in the discharge, Koppers is obliged to deal with them.

## 3. Contaminated Aquifer Policy

The DEQ Contaminated Aquifer Policy states that DEQ will not provide release from liability letters to owners or operators of impacted property. In addition, given the past and current operations conducted by Koppers on the Gasco site, it is reasonably likely that these operations resulted in releases of hazardous substances that may have contributed to soil and groundwater impacts (e.g., Koppers land disposal area). The Contaminated Aquifer Policy is not binding on the NPDES permit.

If contaminated groundwater is infiltrating into Koppers' sumps, then Koppers must either repair the stormwater sumps to prevent groundwater infiltration or find a way to treat the contaminated stormwater in the sumps to meet state water quality standards.

If you have any additional questions, please contact me.

Sincerely,

Elliot J. Zais, PhD, PE Senior Environmental Engineer Northwest Region



CONTINGENCY, SPCC, AND POLLUTION PREVENTION PLAN

KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR
3/17/97

CONTINGENCY PLAN,
SPILL PREVENTION, CONTROL
AND COUNTERMEASURES (SPCC) PLAN
AND

STORM WATER POLLUTION PREVENTION PLAN
KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR
December 7, 1994

#### CERTIFICATION

I hereby certify that I have inspected the subject facility, and being familiar with the provisions of 40 CFR 112 for SPCC requirements and 40 CFR 122 for Storm Water Pollution Prevention requirements, attest that this Plan has been prepared in accordance with good engineering practices.

Edward M. Bennett Tar Products Engineer

PENNA. #002433E

Date: 12/20/94

MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.

Amøs . Kamerer Play Manager EDWARD M. BOWNETT

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#### 1.0 INTRODUCTION

This plan has been developed to; a) provide a basis for planning for and responding to potential spills, accidents, fires, or other contingencies and b) describe and implement practices to minimize and control pollutants in storm water discharges and ensure discharge permit compliance. It includes the requirements for the Contingency Plan as required by the Resources Conservation and Recovery Act (RCRA), the Spill Prevention, Control, and Countermeasures (SPCC) Plan and Storm Water Pollution Prevention Plan (SWPPP) of the Clean Water Act, and the inventory reporting requirements of the Emergency Planning and Community Right-to-Know Act (SARA Title III).

Questions concerning this plan may be directed to:

Amos S. Kamerer Plant Manager (503) 286-3681 T.J. Turner General Foreman (503) 286-3681

#### 1.1 FACILITY LOCATION

The Portland plant is located in Multnomah county in the city of Portland, OR. The terminal is located on approximately 6.4 acres of leased property. The property owner is the Northwest Gas company, 220 NW 2nd Ave., Portland, OR, 97209. The portion of the property that Koppers Industries leases is addressed as 7540 N.W. St. Helens Rd., Portland OR, 97210. The property is bounded by St. Helens Rd (Oregon State Highway 30) on the south, the Northwest Natural Gas Company property extending to the shore of the Willamette River on the North, The Northwest Gas Company liquified Natural Gas Plant on the west. A service road separates Koppers property from Wacker Siltronic Corporation, on the eastern boundary. Approximately 10 people are employed at the terminal (4 salaried people, 6 hourly people). Normal operating hours are 4:00 p.m. to 4:30 p.m., Sunday through Friday. Generally, the plant is closed on the weekends.

#### 1.2 OPERATION

Coal tar pitch and other related products are shipped into the terminal from our four domestic production plants via tank cars or are imported via bulk cargo ships. These products are then stored or further remanufactured at the terminal, prior to the distribution to our customers. Outbound shipments are then made via tank truck or tank cars.

All products and/or chemicals used or handled through the terminal are covered by material safety data sheets which are on file. All employees have been trained on the usage of these materials and educated in the proper manner of reading and understanding of the material safety data sheets. This training is mandatory and retraining is given annually.

#### 1.3 COORDINATED EMERGENCY SERVICES

This plan is written to facilitate the quick and efficient coordination of emergency response actions between Koppers Industries Inc. (Koppers) and any emergency response companies or agencies which may be needed. Copies of this plan, and updates, are provided to the following:

U. S. EPA Region X
Oregon Department of Environmental Quality
Portland Fire Department
Plant Supervisors
City of Portland, Environmental Services Dept.

Instructions on how and when to obtain assistance for emergency situations, including agency and contractor phone numbers, are included in section 4 of this plan.

#### 1.4 SPCC AND SWPPP PLAN MAINTENANCE

This Plan must be kept up to date. Notify Koppers' Environmental Program Manager in the event of any change made. Automatic review, evaluation and recertification by a Professional Engineer is required once every three years from the date of the latest certification. This Plan must also be amended whenever there is a change in design, construction, operation or maintenance which materially affects the facility's potential for discharge, and the amendment fully implemented as soon as possible and no later than within six months.

A copy of this Plan is to be maintained in the plant's main office and the plant's melter control room.

Notify the Environmental Program Manager if any amendment needs to be made to this Plan.

#### 2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

#### 2.1 Discussion

Various materials are used at the Koppers facility which are considered hazardous based on the toxicity or flammability of the materials. These include preservatives which are used in the industrial processes to pressure treat wood products, unusable waste products from these processes, boiler water treatment chemicals, and fuel and lubricants for plant vehicles and equipment.

#### 2.2 Business Information and Identification

The following information applies to the Koppers Industries Portland Plant:

Business Name: Koppers Industries, Inc.

Business Phone: (503) 286-3681

Owner: Koppers Industries, Inc.

436 Seventh Ave.

Pittsburgh, PA 15219

Operator: Same as owner.

SIC Code: 2865

EPA ID Number: ORD 027734359

Site Address: 7540 N.W. St. Helens Rd.

Portland, OR 97210

Mail Address: same as above

Type of Business: Creosote, Refined Tars and Coal Tar Pitch

Terminal

# 2.3 Emergency Contacts/Emergency Coordinators

Name/Address Title Home Phone

Amos S. Kamerer Plant Manager
5912 S.W. Knights Bridge Dr. Portland, OR 97219

T.J.Turner General Foreman 17815 N.E. 152nd Ave. Brush Prairie, WA 98606

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Type of Business: Creosote, Refined Tars and Coal Tar

Pitch Terminal

2.3 Emergency Contacts/Emergency Coordinators

Name/Address Title Home Phone

Amos S. Kamerer Plant Manager (503) 246-8045

5912 S.W. Knights Bridge Dr. Portland, OR 97219

T.J. Turner General Foreman (360) 896-5139

17815 N.E. 152nd Ave. Brush Prairie, WA 98606

The above people can normally be reached during work hours at the business phone number, (503) 286-3681. Additionally, the night shift operator (when there is a night shift) can be reached at (503) 286-3681.

The plant manager is the Primary Emergency Coordinator and should be contacted first. If he is not available, the others should be called, in the order listed, until someone is reached. The Primary Emergency Coordinator and alternates have complete authority to commit all necessary resources of the company in the event of an emergency.

During off shifts, holidays, and weekends, the shift foreman will be the acting Emergency Coordinator. During these times, the shift foreman will notify the Emergency Coordinator, above, who will assume responsibility for implementation upon his arrival at the plant. Also on nights, weekends and holidays when there is no shift work occuring the plant is patrolled by N.W. Natural Gas guards who make rounds of the plant hourly. The guards have been provided a list of emergency phone numbers to call in case of a problem.

Phone numbers for Koppers Industries Corporate Contacts are provided on Page 14.

### 2.4 Hazardous Materials Inventory

The primary hazardous materials which are used or stored on the Koppers site are listed by tank in Table 3.7, Tank Listings Table (page 9). The tanks and facilities are shown on the site map by number or name.

### 3.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURES

### 3.1 Description

This section of the Plan provides information specific to the storage and handling of hazardous liquids, spill prevention and containment equipment, and countermeasures to be implemented to control the impact of a spill. The Tank Listings Table, Table 3.7, lists all the tanks used at the Koppers plant by number along with their name, contents, and capacity. Locations can be found for processes and tanks on the site map.

### 3.2 Conformance with SPCC Standards and Guidelines

This facility meets the minimum requirements for diversionary structures and equipment to prevent discharged oil or hazardous substances from reaching navigable waters as required by 40 CFR 112.7(c) by providing secondary containment for all major tanks and process equipment.

The Portland plant is in conformance with the applicable guidelines of 40 CFR 112.7(e). Rainwater is collected, stored and then inspected prior to discharge. Tank installations are equipped with secondary containment and are regularly inspected by operators. The creosote tank car unloading station is top unloading. Spill prevention details for equipment and processes are discussed more fully below.

### 3.3 Inspections and Security

The operational areas in the plant are checked hourly by the operator on duty throughout each shift. The tank area is routinely checked by the operator on duty. Any problems or unusual circumstances which can not be immediately resolved are reported to the Supervisor.

### 3.4 General Plant Spill Prevention

A hazardous material spill can occur any place, any time. All employees must be prepared to respond immediately to control damage and to notify management. Containing a spill to the smallest area possible is the first step.

Containments can quickly be constructed using available equipment and supplies; usually by placing dirt, sand, or sawdust around the lower side of a spill with Koppers loaders. If possible, a spill should be prevented from reaching the surface water drainage, where it will spread more rapidly and have greater environmental and health impact.

Loading operations should be supervised by employees familiar with the equipment involved. Buckets or pans should be placed under hose connections to collect drips. Be prepared for hoses and pipes to be full and for liquid to be behind valves. Properly and promptly cleanup any drips or spills. Supervisors must be notified of any spills which are outside of containments. Oil, creosote, and other hazardous material deliveries are made by vehicles complying with DOT spill control regulations. Unloading is supervised by plant operators.

systems. Collection pans should first be readily available. Collected material must be returned to the processes or be properly containerized for disposal.

# 3.5 Surface Drainage

The plant property is at 37' above sea level and our outfall for pumping off the collected storm runoff is located on the very south eastern tip of the property approximately 10' ft. elevation above a creek that flows to the Willamette River.

In the Portland terminal there are two run-off patterns for site drainage. The first is directly in front of the office and away from any creosote, tar handling or process area. This area would not be threatened by a spill. All other run-off channels from the tank farm, into a concrete storm run-off sump. Dual sump pumps (one operating and one standby) lift the run-off into the waste water storage tanks #1, #2, #3, #4, #5 and #6. When these tanks fill they are sampled and the samples are taken to an Oregon Department of Environmental Quality approved laboratory for analysis. Then, in accordance with the rules governing our N.P.D.E.S. permit, the samples are checked for temperature, P.H., oil and grease content and phenol content. When the laboratory reports the results and it is certified that the water in the waste water tanks is within the parameters allowed in the N.P.D.E.S. permit, the water is pumped to the out-fall and into the creek that flows into the Willamette River.

Equipment, including secondary spill containment, has been installed and procedures implemented to prevent oil or hazardous materials from leaving the plant. A spill is most likely to occur in the process area and if not contained, would drain into the ditch.

Koppers has installed extensive paving at the heat exchanger location including paving between the rail tracks and the loading area for trucks. In addition, a below grade sealed concrete sump was installed as a catch basin. This catch basin has approximately 1500 gallon capacity. Also two sump pumps have been installed. The first pump, manually activated, pumps collected storm water to the storm water runoff collection system for further handling.

The second pump is energized only when we are unloading creosote rail cars. This pump is on a float activated switch and is piped to #39 tank, which is now designated as the emergency response tank at this location. Tank #39 is of sufficient capacity to hold the gallonage of a full tank car if needed, 20,000 gallons. It is the duty of the loading/unloading employee to clear the catch basin of water, then open the valve to 39 tank and emergize the automatic pump. In this way, should a creosote spill occur, all precautions are in place to contain the release.

In the case of a spill in which hazardous materials or oils reach either of the drainage ditches, immediate action must be taken to contain the spill. Temporary earth dams should be constructed using plant equipment along the ditches, creating a series of impoundments to contain the flow. Sorbent booms may be used to remove containments from the water held behind the dams, if needed.

These dams can only hold back a limited amount of water, so emergency help should be contacted at the first sign that such a spill has occurred or may occur.

## 3.6 Tank Car and Truck Unloading

Tank cars are unloaded at the Unloading Station, where the process transfer pipelines are all above ground. The potential spill sources in this area include leaks from the process tanks, valves, pumps, and pipe systems. These leaks can best be prevented by proper valve and pump maintenance and equipment inspection during creosote transfers. Any leaks or drips must be cleaned up immediately.

As part of the operating procedures, drains and outlets on tank trucks and tank cars are checked for leakage before and after each loading and unloading operation. Operations personnel performing loading and unloading activities are instructed to inspect piping and pumps associated with these activities and to report spills or leakage.

The driver performs a visual inspection of the truck and trailer after each loading and prepares a Driver Vehicle Inspection Report which is filed and if repairs are needed the truck is shopped for repairs.

The operating procedures included in this plan form the basis for the training of operations personnel in the prevention of creosote or coal tar discharge. Job positions within the Portland plant require that new personnel, working in unfamiliar process areas will have a senior experienced employee to guide them. Personnel are also instructed in the operation and maintenance of equipment to prevent discharges.

### 3.7 Tank Farm

All preservative tanks are in the concrete-wall-lined and earth-diked tank farm. Containment capacity of approximately 2,900,000 gallons is provided.

Table 3.7
TANK LISTING TABLE
Koppers Industries, Portland Plant

Tank No.	<u>Contents</u>	<u>Size</u>	Capacity (000) (Gallons)
27. 33. 34. 39. 53. 65. 66. 67. 68. 74. 99.	Not on Lease Not on Lease EmptyOut of Service Heavy OilBottoms EmptyOut of Service Priming & Refractory O R.T. Creosote Bottoms Lite Unc. Bottoms EmptyOut of Service Heavy OilPitch & Cre N.S.R. P1/P13 Bottoms Empty-out of service Melter Pitch Empty-out of service Creosote Storage Pitch	oil	660 M 1065 M 99 M 99 M 254 M 57 M 20 M 20 M 20 M 20 M 20 M 45 M 45 M 20 M 10 M 761 M 191 M 102 M 245 M 209 M
WW # WW # WW # WW # WW #	Water-Effluent Water-Effluent Water-Effluent Water-Effluent Water-Effluent	vice	45 M 45 M 45 M 45 M 20 M 20 M

# 3.8 Fuel and Lubricating Oil

Lubricating oil is stored in 55-gallon drums, most of which are store in the oil house building. Drums should be stored upright and kept sealed. Dispensing areas should be kept clean. Oil drippage should be contained. Any minor spills should be cleaned up immediately.

# 3.9 Hazardous Waste Storage Facilities

All hazardous waste that is in process is stored in drums in the rear storage area of the maintenance building. Once full, the drum or drums are disposed of through RCRA approved facilities.

### 4.0 EMERGENCY RESPONSE PROCEDURES

#### 4.1 General

This section of the Plan describes the actions that are to be taken by Koppers personnel in response to any injury, accident, fire, explosion, or unplanned release of any hazardous material to the air, soil, or water.

# 4.2 Emergency Coordination

As soon as an emergency situation is discovered by an employee, that person shall quickly estimate the extent the problem, take safe and appropriate control action, and then notify the plant management immediately. Once notification list is Section 2.3, page 4, who is present will assume the responsibilities of <a href="Emergency Coordinator">Emergency Coordinator</a> (EC). Other personnel will respond as a team under the direction of the E as needed based on the type of emergency, individual skills, and plant responsibilities.

The E has Koppers Industries' commitment to spill prevention and response and has the authority to commit plant employees and contract labor and equipment to response actions and to purchase needed supplies. The E is responsible for the appropriate implementation of this plan in an emergency.

Effective communication is vital in any emergency response. All plant employees have portable two-way radios which will be used for communication and coordination between the plant offices and yard areas. Phones may also be used between offices.

### 4.3 Immediate Response

As soon as an employee discovers an emergency situation, he shall quickly determine the extent of the problem. If a simple action can be taken to control a release or other emergency, such as shutting a valve to stop the flow from a ruptured pipe and can be done safely, then the control action should be completed first. If there is no simple, safe control action or after taking such action the person shall immediately notify the plant management and any other personnel who may be endangered by the incident by phone or radio.

### 4.4 Response Procedures

- 4.4.1 Upon discovery or notification that an emergency exists, the EC, assisted by the management team, shall:
  - Determine the extent of the emergency,
  - Implement plant evacuation, if needed, to prevent injury,
  - Call for outside assistance as needed,
  - Start immediate control actions,
  - Implement cleanup or other responses,
  - Notify local, state, and federal agencies as required,
  - Notify Koppers Pittsburgh office,
  - Assure completion of cleanup,
  - Provide for storage of cleanup material, inc. hazardous waste.
  - Evaluate possible hazards to human health or environment,
  - Make a final written incident report.

Many of these actions may occur concurrently.

- 4.4.2 Whenever there is an imminent or actual emergency situation, the emergency coordinator, or his designee, shall:
  - Immediately call by radio or phone to notify all facility personnel;
  - Immediately notify appropriate federal, state, and/or local agencies with designated response roles if their help is needed;
  - Make other notifications as stated in Section 3.5, Emergency Notifications.
- 4.4.3 Whenever there is a release, fire, or explosion, the emergency coordinator shall immediately identify the character, exact source, amount, and area extent of any released materials. This may be done by observation or review of facility records or manifests and, if necessary, by chemical analysis. Form 4.1 should be used to document the information needed for notifications.
- 4.4.4 Concurrently, the Emergency Coordinator shall assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment shall consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).

4.4.5 If the Emergency Coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, <u>outside of the facility</u>, or if the released amount of hazardous or extremely hazardous material exceeds the Reportable Quantity (RQ), the findings shall be immediately reported to the National Response Center as in Section 4.5, Emergency Notifications.

Note that the reportable quantities for materials are listed in Section 4.5.

- If his assessment indicates that evacuation of local areas <u>may</u> be advisable, appropriate local authorities shall be notified immediately. The Emergency Coordinator shall be available to help appropriate officials decide whether local areas should be evacuated.
- 4.4.6 During an emergency, the Emergency Coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes or materials at the plant. These measures could include turning water sprays onto tanks, stopping and isolating processes, shutting off power to areas, collecting and containing released materials, or moving and isolating other containers.
- 4.4.7 If some or all operations are stopped in response to an emergency, the emergency coordinator shall monitor tanks, pipes, valves, and other process equipment for leaks, pressure build-up or ruptures wherever appropriate.
- 4.4.8 Immediately after an emergency, the Emergency Coordinator shall provide for treating, storing, or disposing of recovered materials or wastes, contaminated soil, surface water, or any other material that results from a release, fire, or explosion.
- 4.4.9 Before resuming operations, the Emergency Coordinator shall:
  - a. Insure that clean-up is complete to the point that operations will not interfere or create further potential for hazardous waste release,
  - b. Insure that all emergency equipment is cleaned and fit for use, and
  - c. If hazardous wastes or a hazardous waste unit has been involved, then advise the Dept. of Environmental Quality and EPA Region X that Steps a. and b. above are complete.

4.4.10 If hazardous wastes or a hazardous waste unit has been involved, the Emergency Coordinator shall submit a written report within 15 days of the incident to the Dept. of Environmental Quality. Form 4.1, completed, may fulfill this purpose or will at least provide a basis for the report. A copy of the completed report shall be maintained in the Operating Record.

### 4.5 Emergency Notifications

4.5.1 The emergency coordinator shall ensure that the necessary notifications are made. Form 4.1 entitled, "Emergency and/or Hazardous Materials Incident Report" is to be used. Page one is organized to provide all the information needed for the initial verbal notification of the National Response Center or other agencies. As soon as a spill or other incident is discovered, the supervisor/manager who will do the reporting should begin filling in the information.

Page 2 should be used as a log of notifications made. Get the position and name of the person who accepts the phone notifications. Also, if an incident number is assigned, as by the National Response Center, that number should be recorded. As more is learned about the incident, the report should be updated. Updates can be recorded on page 2 as well.

Pages 1 and 2, completed either by hand or typed, can be used for the required written notification of agencies. These should be sent with cover letters showing everyone who will get copies. Copies must be kept in the plant's Operating Record.

Finally, page 3 should be used for Koppers Industries internal reporting of additional related information. KII has an obligation to report all spills which could possibly impact over-all cleanup work. The complete report, Pages 1, 2, and 3 should be sent to W.E. Swearingen, Environmental Program Manager including original photographs. He will provide the required notification to Beazer East, Inc.

4.5.2 WHAT SPILLS OR INCIDENTS MUST BE REPORTED AND TO WHOM?

Following is a summary. Note that more than one category may apply.

# If outside help is needed, IMMEDIATELY:

Call fire and/or other appropriate emergency agencies, describe incident and needed assistance, such as fire suppression, medical aid, evacuation, and/or crowd control.

# If release or threatened release of hazardous material, IMMEDIATELY:

Call 911-for immediate help, then call both the Oregon Emergency Management Office at 1-800-452-0311 and the National Response Center at 1-800-424-8802. This report shall be made unless it is determined that the release poses no significant hazard to human health and safety, property, or the environment and is less than the reportable quantity for the material.

Such releases which cannot be recovered must also be included in the SARA Title III annual reports.

### If health threat or release outside of facility: OR

If the release results in or has the potential to cause an oil sheen on or discoloration of runoff water; OR

If release of hazardous or extremely hazardous material exceeds the Title III Reportable Quantity, IMMEDIATELY:

All National Response Center at 800-424-8802.

If the release results in or has the potential to reach the City Storm or Sanitary Sewer drains, IMMEDIATELY:

Call the Duty Officer at 823-7180

If hazardous waste or a hazardous waste unit is involved OR if the plant contingency plan is implemented; IMMEDIATELY AND NOT LATER THAN 24 HOURS:

Call the Oregon Emergency Management Office at #1-800-452-0311 AND, Within 15 days

Submit a written report of the incident to them at: 595 Cottage Street, N.E. Salem, Oregon 97310

If injuries result in 3 or more people being hospitalized or 1 or more person killed, IMMEDIATELY:

Call the U.S. Occupational Safety and Health Administration or authorized state OSHA agency WITHIN 8 HOURS!

In all cases, as soon as the emergency situation allows, Koppers management in Pittsburgh shall be called. Follow the guidance contained in "Internal Emergency Notification Procedures" for Koppers Industries, Inc. At least one of the following primary contacts in Pittsburgh shall be notified:

Name, Position		Work Phone	<u>Home Phone</u>
Bill Swearingen, Program Mike Juba, Mgr. Health & Randy Collins, Mgr. Loss	Safety	412/227-2883 412/227-2882 412/227-2456	

### 4.5.3 WHAT SPILLS ARE REPORTABLE?

For hazardous materials, Reportable Quantities (RQ) are specified by the EPA. Additional requirements may be set by some states. The Federal Quantities are:

Creosote	1 pound
Benzo (A) Pyrene	163 lbs. of solid pitch or 15
	gal. of liquid pitch
Dibenzo (A,H)Anthracene	163 lbs. of solid pitch or 15
	gal. of liquid pitch.

The Clean Water Act also has reporting requirements. Generally if "oil" is released to or presents the potential to be released to navigable waters in amounts that result in a sheen on or discoloration of the water or adjoining shorelines, cause a sludge or emulsion to be deposited beneath the surface of the water or upon the adjoining shorelines, or violates an applicable water quality standard, then it is reportable and the National Response Center must be notified.

Gasoline, lubricating oils, and transmission fluid are all regulated as "oil. Unless released as above, reporting is not mandatory.

## 4.5.4 IF IN DOUBT, REPORT!

If a spill is large enough to require cleanup action but is not reportable, it generally is a good practice to make a courtesy report to the local agency contact. It shows that we are on top of the problem and provide valuable documentation of our response in case of a report by a third party. The attached written report form should also be completed and submitted internally.

Form 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT	Page	1
OWNER/OPERATOR: Koppers Industries, Inc. Plant Name: Portland Plant Street Addr: 7540 N.W. St. Helens City, St, ZIP: Portland, OR 97210-3663 Phone: 503-286-3681 EPA ID #: ORD 027734359		•
FACILITY: Same as above		
DATE OF INCIDENT: TIME OF INCIDENT:		
TYPE OF INCIDENT: Fire, Explosion, Hazardous Material Spill, (Circle One) Hazardous Waste Spill, Injury Accident		
Other:		
MATERIALS INVOLVED:  Name Ouantity		
EXTENT OF INJURIES, IF ANY:		_
		<del></del>
ASSESSMENT OF ACTUAL OR POTENTIAL HAZARDS TO HUMAN HEALTH OF ENVIRONMENT, WHERE APPLICABLE:	R THE	
DISPOSITION OF RECOVERED MATERIAL:  Material Quantity How Disposed or Stored		

Page 2

# Form 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

NOTIFICATION LOG		Name of Person	Date/Time Notified
Portland Fire Dept.		ATOMIC OF A COUNTY	2007 4400 30041100
Oregon Emergency Mar 1-800-452-			
National Response Co 1-800-424-			
Oregon OSHA 229-	5910		
City Duty Officer (For Storm, Set Conta		)	
Northwest Natural Ga	as 224-3532		
Wacker Siltronics	243-2020		
Security for FA	AB #1 Ext. 7420		
Security for F	AB #2 Ext. 4300		
Pacific Northern Fu	els 286-9621		

Page 2a

# Form 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

Furitoumental brod	Jram		
Manager - KII or Home:	412-227-2883 304-737-0627	Bill Swearingen	
ADDITIONAL DESCRIF	PTION OF INCIDENT	T AND ACTIONS TAKEN (Attach page if	
		V	
REPORT BY (Name):		DATE	
REPORT REVISED:		DATE	
REPORT REVISED:		DATE	

Page 3

# Table 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

SUPPLEMENTAL INFORMATION REPORT
(This part of report is intended for KII internal use only.)
CLEARLY DESCRIBE HOW INCIDENT OCCURRED:
WHAT ACTS OR CONDITIONS MOST DIRECTLY CAUSED THE INCIDENT:
•
DESCRIBE ANY RESIDUAL CONTAMINATION OR IMPACT:

ATTACH PHOTOGRAPHS WHICH SHOW INCIDENT AREA, BEFORE AND AFTER RESPONSE ACTIONS. MARK DATE OF PHOTOS. ATTACH ADDITIONAL SHEETS AS NEEDED TO

DESCRIBE INCIDENT AND RESPONSE ACTIONS.

### 4.6 Available Equipment

The following equipment is available at the plant:

Front-end Hydraulic payloaders 1 Pickup Truck Sawdust and sorbents Lift Trucks Portable Pump

The above equipment can be effectively used to control and clean a spill of oil, hazardous material, or hazardous waste. Trucks and tractors can be used to transport and place soil for containment dams, sorbent to soak up spilled liquid, and contaminated soil from cleanup actions. Pumps can be used to pump spilled liquid back into containments. After response action is complete, equipment should be placed on the drip pad or vehicle wash pad and be decontaminated with the steam cleaner prior to being released from the response.

### 4.7 Emergency Response Contract Service

Koppers has entered into a Corporate Agreement with O.H. Materials Corporation to provide various environmental services in the event of an emergency. O.H. Materials has subcontracted this service in the Portland area to Foss Environmental Services, they can be reached at their local number 283-1150, all 24 hours a day.

- 4.8 Fire and Disaster Response Plans
- 4.8.1 This section of the Plan provides additional information on specific response actions to be taken in the event of a major disaster, emergency, or other disruption. Such an event could include:
  - Fire or explosion
  - Earthquake
  - Strike or civil strife.

## 4.8.2 Fire or Explosion

Fire disasters can occur anywhere in the plant environment, so all employees should be knowledgeable as to the proper method for handling all types of fires, and where the largest potential risk areas are located. Communications with and between plant employees is vital to a safe and effective response.

# 4.8.3 Designated Response Stations

In the case of a disaster or other major incident, employees shall secure their work areas and processes and then report to the General Foreman and/or Plant Manager, if they are not directly involved in Emergency Response.

Plant Office Employees stay at office. Coordinate outside calls, inquires, and media contacts.

#### 4.8.4 Evacuation

The need for evacuation shall be signalled by a message over the radio to all employees. Employees shall follow the safest path to meet and check in at the closest location outside the property fence, that is considered to be a safe area.

Supervisors shall account for all of their employees, notify the main office when they are "all clear" and relay further instructions. An alternate location will be designated and announced at the time of the incident if the service building is not a safe check-in location.

# 4.8.5 Fire Suppression Systems

<u>Fire Hose and Hose Reels</u> are located at strategic points around the plant. Employees must be familiar with ones within their work areas.

<u>Fire Extinguishers</u> are located throughout the plant and on rolling stock. CO-2 and ABC Dry Chemical types are used exclusively.

# 4.8.6 Civil Strife, Strike

Emergencies resulting from, or shutdowns as a result of, civil strife or strike situations require the control of people entering the plant, both authorized and unauthorized. Local law enforcement agencies can be helpful in achieving this goal, but in-plant security is management's immediate concern. When a total shutdown is planned, and security measures are to be implemented, the following should be observed.

# **Boiler**

- Secure door locks.
- Follow established shutdown procedure.
- Assure that all steam line drains are open.

### <u>Hazardous Waste Storage Facility</u>

- Properly store all hazardous waste drums in facility.
- Lock doors.

### Major Operations

- Secure electrical panels.
- Turn off air compressors, shut valves.
- Store and secure portable tools, cords, hoses, etc.
- Clean up area for safety and fire protection.

# Rolling Stock

- Park centrally in area in front of shop.

### <u>Gates</u>

- Keep locked at all times.
- Put on new locks to prevent unauthorized entry.

## Access Roads

- Blockade with ties or lumber.

### Security Patrols

- At least 2 persons will provide security patrols on shifts, 24 hours per day.
- Plant vehicles will be provided
- Communication will be maintained at all times between the patrols and the main office by radio.

### Lighting

The plant has general yard lighting system consisting of flood lights, street lights and incandescent lighting. Outdoor lighting is controlled by timers of photo cells.

# 4.9 Medical Emergency Plans

Emergency and first aid supplies are maintained at the following work locations:

Control Room
Maintenance Shop
Main Office (Main supply center)

First aid supplies are intended for use on minor cuts, abrasions, and burns requiring simple care such as band-aids, disinfectant, or ointment. Supplies are also available for the immediate treatment of severe injuries while awaiting professional medical care, such as gauze pads, bandages, and splints.

First aid applied at the plant by plant employees is in no way intended to replace any needed medical attention, but only to help prior to receiving professional treatment.

If a serious injury occurs, assure that an ambulance is called immediately.

### 5.0 STORM WATER POLLUTION PREVENTION PLAN

### 5.1 General

This section of the Plan describes the pollution prevention procedures and facilities for this plant to minimize the impact of storm water runoff to the surrounding environment. This section specifically addresses the requirements of the Storm Water General NPDES Permit.

5.2 Pollution Prevention Objectives and Process

All boiler blowdown water and stormwater runoff is collected in our tank farm and is handled under the terms and conditions of our NPDES permit. No discharges are made unless they meet these terms and conditions.

### 6.0 TRAINING

All plant employees shall receive training on the content of this plan. Supervisors will each receive a copy and become thoroughly familiar with it through training, discussion, and self study. Supervisors will train their employees in the overall plan and in the specific needs of their work areas.

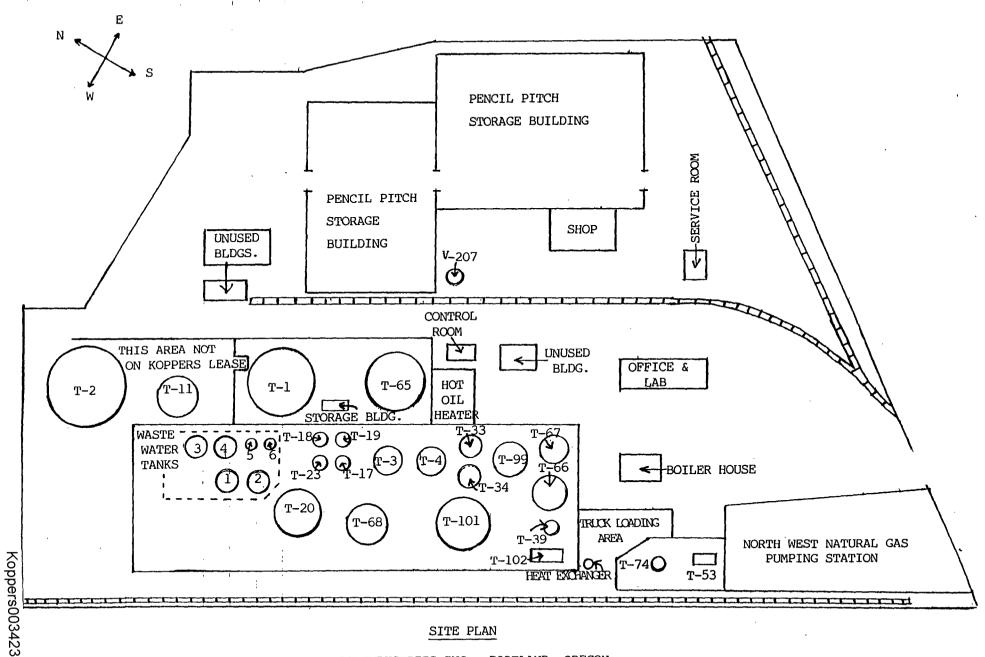
Training will, at a minimum, include programs to ensure that facility personnel understand basic procedures for pollution prevention and good housekeeping and are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, as applicable to each employee's job function:

- \* Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;
- \* Communications and alarm systems;
- \* Response to fires or explosions;
- \* Response to ground-water or surface water contamination incidents;

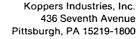
- \* Shutdown of operations;
- \* Methods for the safe handling of hazardous materials;
- \* Procedures for coordination with local emergency response organizations;
- \* Use and location of medical supplies;
- \* Use of emergency response equipment and supplies appropriate to work areas; and
- \* Emergency response procedures and plans contained within this SPCC and Contingency Plan. Refresher training will be provided at least annually. New employees will not work in unsupervised positions until they have completed all training required for those positions. Supervisors will provide training to their employees and management will assure that supervisors are properly trained.

Employees with specific additional job related training needs will also be given that training, such as hazardous waste handling training as required by RCRA and State regulations, hazardous waste operating procedures for fuel additive to the boiler, storm water pollution prevention, and waste water operations.

This training may be coordinated and take place concurrent with Hazard Communication and RCRA training, safety meetings, and annual updates.



SITE PLAN





July 9, 1992

Telephone: (412) 227-2001

EXPRESS MAIL

Mr. Charles K. Ashbaker Water Quality, Northwest Region Department of Environmental Quality Business Office 811 S.W. Sixth Avenue Portland, OR 97204

Re: NPDES Permit Renewal Application

Permit No. 100419 File No. 47430 Multnomah County

Dear Mr. Ashbaker:

Enclosed are completed application forms and check #3082179 in the amount of Eight Hundred Dollars (\$800.00 - \$50.00 filing fee and \$750.00 processing fee) for the renewal of the NPDES Permit for our Northwest Terminal.

Terminal operations have not changed significantly during the time covered by the current permit. No process wastewater is generated by terminal operations, consequently only non-contaminated storm water and boiler blowdown is discharged. We believe that the current permit limitations provide adequate protection to the environment and achieves a reasonable cost to benefits ratio. We encourage the agency to reissue the existing permit without major modifications.

If you have any questions please contact John Oxford, Plant Manager, at 503-286-3681 or me at 412-227-2883 or write me at the above address.

Sincerely yours,

William E. Swearingen,

Manager, Environmental Programs

Enclosures

cc: John A. Oxford, Northwest Terminal

bcc: L. F. Flaherty, K-1750

J. R. Batchelder, K-1701

		Kor	opers Industries, Inc.	- Pittsburgh, PA	15219-1800		3U8ZT1A
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# APPLICATION PERMAN APPLICATION TO:

DEPAREMENT OF ENVIRONMENTAL QUALITY
3051NZSS OFFICE

811 S.W. Sixth Avenua Formland, CR 97204 (503) 229-5309

# FOR RENEWAL OF

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPDES-R)

STATE OF OREGON

בבק הצב סונץ
Appl. No.:
Appl. No.: 47430
Received:
VQ EPA 30.: CR-

	·							
A. REFERENCE INFORMATION								
Koppers Industrie	es, Inc.		Present Pe	ermit No.:	100419	9		
Official	Name of Applicant (Own	er)	1		11/30	102		
Northwest Termina	ı1 ·		Date Expli	:es:	11/30/	192		
7540 Northwest Sa	Faciliy Name wint Helen's Road	d ·	Ent	er Site Lo	cation by !	Latitude a	nd Longitu	de:
7,54,0 2,622,230	Address		.	LATITUDE			LONGITUDE	
Portland	OR	97229	1. Deg.	2. Min.	3. Sec.	1. Deg.	2. Min.	3. Sec.
City	State :	Zip	<del>                                   </del>		1		<del> </del>	
		:	45_	34	138	1_122	1_45	32
John A. Oxford	·	٧	.					
1 _	sponsible Official	:	Alt	ernate Resp	onsible Of	ficial or	Chief Oper	ator
Plant Manager 7540 N.W. St. Hel	en' GiBlead		·   <del> </del>	<del></del>	TL	tle		<del></del>
Portland, OR 9722		) 286–3681						
Address or Loc		Phone		Address or	Location		Ph	one
Operate waste colle	or modify waste collection, treatment, or division the wastewaters into the warge stormwater t	iisposai facilities. Aters of		ilities:				
3. GENERAL QUESTIONS								
l. Have the treatment or application was submit	disposal methods emplo ted? No X No		n previous ap	plications	, been alt	ered in an	y vay sinc	e the last
2. Eas the quantity or quartity or quantity  uality of wastes discha				s, been si	gnificanti	y changed	in any way	
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1			· · · · · · · · · · · · · · · · · · ·	·				
C. SPECIAL QUESTIONS AND RE	OUESTED INFORMATION							
1. If any changes in open proposal.	rations or waste quanti	ty or quality are a	nticipated in	the near	future, pl	ease attac	h an expla	nation or
2. Please attach a brief	report which indicates	your progress in m	eeting the re	quirements	and limit.	acions of	your prese	nt permit.
Lawrence F. Flah	IE INFORMATION CONTAINE	D IN THIS APPLICATI		D CORRECT	TO THE BES	T OF MY KN	OWLEDGE AN	D SELIEF.

Title

Signature of Owner

(Or Legally Authorized Representative)

Date

#### INSTRUCTION - PERMIT RENEWAL APPLICATION

- A. Reference Information: Complete the required information in detail.

  If there has been a name change, address change or change in personnel since the last application, please make a special note to that effect.
- B. General Questions: If more space is needed than provided on the application form, please attached as many additional pages as necessary in order to supply whatever explanation or diagrams are needed to update the treatment and disposal methods used and the characteristics of the waste discharged or otherwise disposed.
- C. Special Questions and Requested Information:
  - 1. Please elaborate on any proposed expansions, cutbacks, improvements or changes of any kind which will or may affect the quantity or quality of pollutants discharged.
  - 2. Each condition of your present permit should be reviewed and an assessment made as to the success you have had in meeting the requirements and limitations.

Signature on Application

The person who signs the application form will often be the applicant himself; when another person signs on behalf of the applicant, his title or relationship to the applicant should be shown in the space provided. In all cases, the persons signing the form should be authorized to do so by the applicant. An application submitted by a corporation must be signed by a principal executive officer of at least the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge(s) described in the form originate. In the case of a partnership or a sole proprietorship, the application must be signed by a general partner or the proprietor, respectively. In the case of a municipal, State, Federal or other public facility, the application must be signed by either a principal executive officer, ranking elected official or other duly authorized employee.

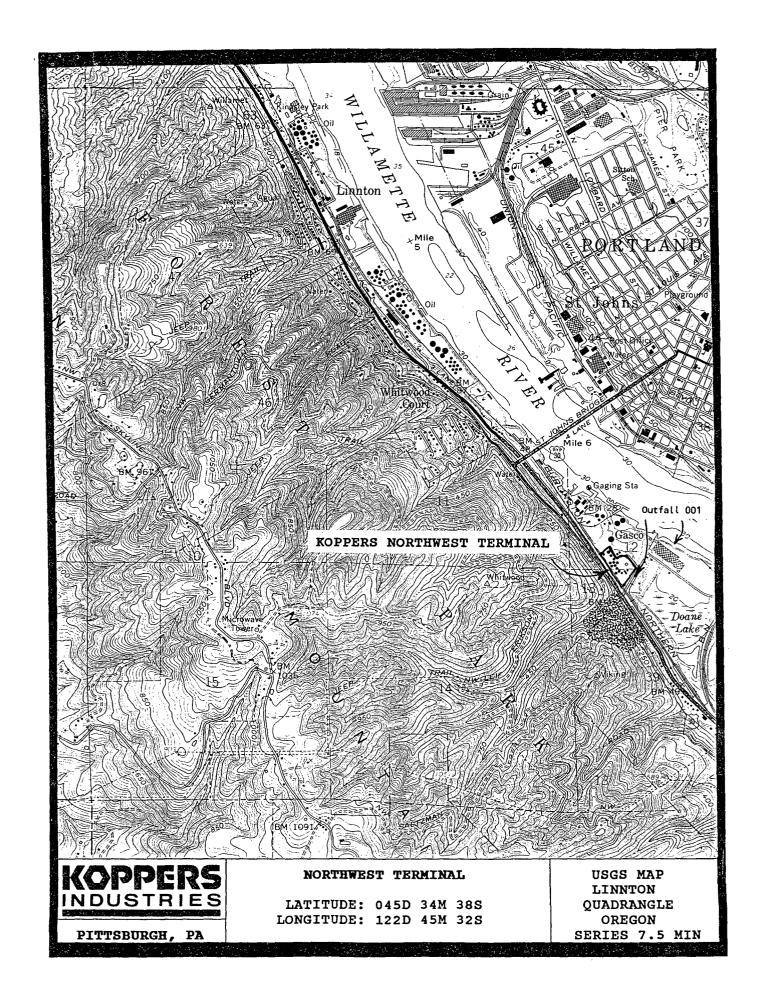
Other Instructions

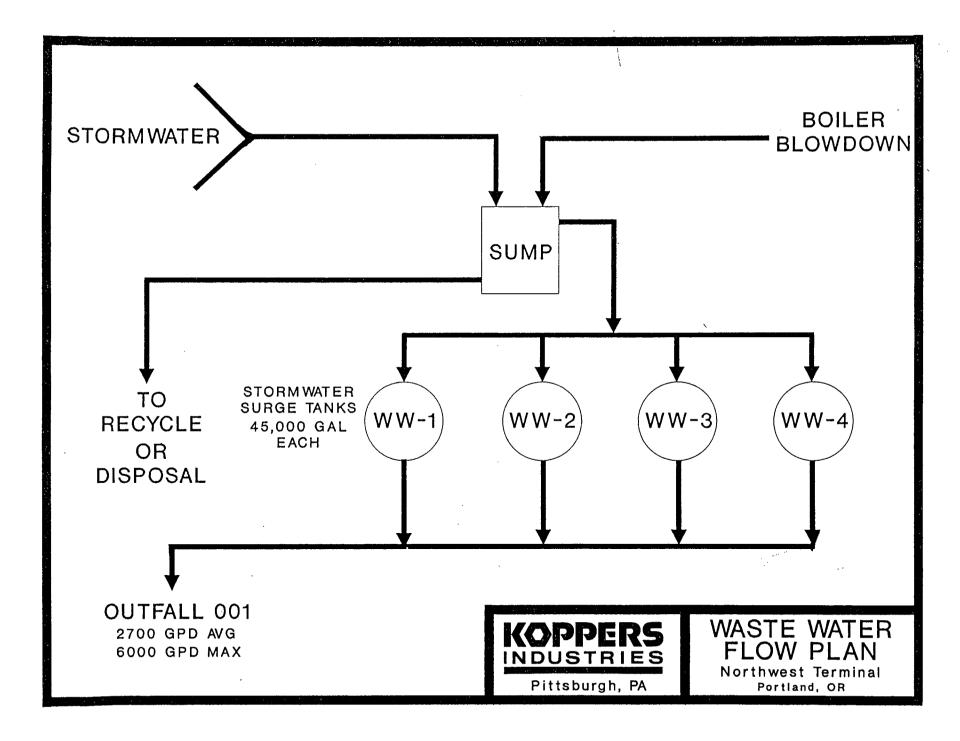
Submit this application as soon as possible. It should be submitted at <a href="Least 130">least 130</a> days prior to the expiration of your present permit.

All NPDES Permit Applications are to be submitted to:

Department of Environmental quality Business Office 811 S.W. Sixth Avenue Portland, OR 97204

IW\WC7604





ORD027734359

FORM 2 G **NPDES** 

# U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS Consolidated Permits Program

For each outfal	l, list the lati	itude and le	ongitude o	f its location	to the near	rest 15 seco	and the name of the receiving water.
A. OUTFALL B NUMBER (list) 1. DEG.	В.	B. LATITUDE		C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	45	34	38	122	45	32	Willamette River
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### II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

L OUT-	2. OPERATION(S) CONTRI	BUTING FLOW	3. TREATMENT				
1. OUT- FALL NO (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a, DESCRIPTION	b. LIST CODES FROM TABLE 2C-1			
201	Stormwater	13,000 gal/mo.	Neutralization	2K			
001	Boiler Blowdown		Discharge to surface water	4A			
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OFFICIA	L USE ONLY (effluent guidelines sub-categor	ries)		<u> </u>			

CONTINUED FR												
C. Except for sto		ff, leaks, or sp lete the follo					Items II-A or		t or seasonal? to Section III)			*
<u>A.</u> .			Ding to			· · · · · · · · · · · · · · · · · · ·		1 10 180	- Section III)			
·	-	: "\ · ·		* 21.4 71.7		3. FREG	UENCY	a, FLOV	V DATE	4. FLOW	VOLUME	<del></del>
1 OUTFALL NUMBER		2. OPER				a. DAYS	b. MONTHS	(in n		(specify u		c DUR-
(list)			ist)	3 F LOW		(specify average)	(specify average)	I. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	Z, MAXIMUM DAILY	(in days)
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III. PRODUCTION	ON	78	- 15 m	September 1								
A. Does an efflu	ent guide	line limitation	n proπ	oulgated i	oy EPA unde	er Section 304	of the Clean	Water Act app	ly to your fa	cility?	ekili matakiri b	aper in the more distance to
Ľ <b>X</b> YE	ES (comp	lete Item III-E	ŋ 🏄	h (suit)	न्द्रिश्च अप्रवास	ri i kasilim arii sa il			o Section IV)			
B. Are the limit		the applicable			ine expresse	ed in terms of p	oroduction (o		re of operation o Section IV)			
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C. If you answe used in the						fected outfalls		ment of your i	ever or produ	ction, express	ea in the term	is and units
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					VENAGE D.			JCT, MATERIAL			2. AFFE	
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IV. IMPROVEME	ENTS										Scaller.	######################################
A. Are you now	v required	hv anv Fede	eral St	ate or lo	cal authority	v to meet anv	implementati	on schadula fe	or the constru	ction upgradi	na or operatio	on of waste.
water treatm	ent equip	ment or prac	tices o	or any oth	her environn	nental progran	ns which may	affect the di	scharges desc	ribed in this a	oplication? Th	nis includes,
but is not lin or loan condi		permit condit	_			rcement order				ers, stipulation	s, court order	s, and grant
		· · · · · · · · · · · · · · · · · · ·				following tab	ie)	X NO (80 t	o Item IV-B)			
1. IDENTIFICATI AGREEI	ION OF C			T	ED OUTFAI		3. BR	IEF DESCRIF	TION OF PR	OJECT		CE DATE
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B. OPTIONAL:	You may	attach additi	onal st	eets desc	ribing any a	dditional wate	r pollution co	ntrol program	s (or other er	vironmental n	rojects which	may affect
your aiscnar	ges) you	now have un	derway	v or which	ch vou plan	n. Indicate wh	ether each or	rooram is nov	underway o	r planned and	d indicate voi	ır actual or

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CH	ARACTERISTICS		
A, B, & C: See instructions bef NOTE: Tables V-A	ore proceeding — Complete one set of tables for , V-B, and V-C are included on separate sheets n	each outfall — Annotate the outf umbered V-1 through V-9.	all number in the space provided.
D. Use the space below to list discharged from any outfall possession.	any of the pollutants listed in Table 2c-3 of the last priefly describe and the pollutant you list, briefly describe	e instructions, which you know o the reasons you believe it to be	r have reason to believe is discharged or may be present and report any analytical data in your
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Quinoline	Coal Tar Constituent		
		·	
. Is any pollutant listed in Item V-0	NOT COVERED BY ANALYSIS  Ca substance or a component of a substance when the substance wh	nich you currently use or manufac	ture as an intermediate or final product or
	YES (list-all such pollutants below)	□ NO (go	to Item VI-B)
Total Phenols Benzene Toluene			
Phenols Acenaphthene Acenaphtylene Chrysene Fluoranthene			
Fluoranthene Fluorene Naphthalene Phenanthrene		and the second second	
Pyrene			
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I. BIOLOGICAL TOXICITY TESTING DAT				
Do you have any knowledge or reason to belie receiving water in relation to your discharge w	ve that any biological test for acute or chronic tox ithin the last 3 years?	icity has been made on any of	your discharges or on a	t par i sel
☐YES (identify the tes	st(s) and describe their purposes below)	X NO (go to Sect	ion VIII)	•
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ICONTRACT ANALYSIS INFORMATION				
Vere any of the analyses reported in Item V pe	erformed by a contract laboratory or consulting fi	ta	ion IX)	
Vere any of the analyses reported in Item V pe YES (list the name, a analyzed by, eac	iddress, and telephone number of, and pollutants ch such laboratory or firm below)	NO (go to Section		YZEC
Vere any of the analyses reported in Item V pe		ta	ion IX)  D. POLLUTANTS ANAL (list)	YZEC
Vere any of the analyses reported in Item V pe YES (list the name, a analyzed by, eac	ddress, and telephone number of, and pollutants ch such laboratory or firm below)  B. ADDRESS  12423 N.E. Whitaker Way	NO (go to Section of the Control of	Form 2C	YZEC
Vere any of the analyses reported in Item V pe YES (list the name, a analyzed by, each	ddress, and telephone number of, and pollutants ch such laboratory or firm below)  B. ADDRESS	C. TELEPHONE (area code & no.)	Form 2C Section V	YZEC
Vere any of the analyses reported in Item V pe YES (list the name, a analyzed by, each	ddress, and telephone number of, and pollutants ch such laboratory or firm below)  B. ADDRESS  12423 N.E. Whitaker Way	C. TELEPHONE (area code & no.)	Form 2C	YZEC
Vere any of the analyses reported in Item V pe YES (list the name, a analyzed by, each	ddress, and telephone number of, and pollutants ch such laboratory or firm below)  B. ADDRESS  12423 N.E. Whitaker Way	C. TELEPHONE (area code & no.)	Form 2C Section V Parts A,B,C	YZEC
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Vere any of the analyses reported in Item V pe YES (list the name, a analyzed by, each	ddress, and telephone number of, and pollutants ch such laboratory or firm below)  B. ADDRESS  12423 N.E. Whitaker Way	C. TELEPHONE (area code & no.)	Form 2C Section V Parts A,B,C	YZEC

A-NAME & OFFICIAL TITLE (Lype OT) print)		B. PHONE NO. (area code & no.)
Lawrence F. Flaherty	Vice President	(412) 227-2304
C. SIGNATURE		D. DATE SIGNED
		7/7/82

EPA Form 3510-2C (Rev. 2-85)

ASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of information on separate sheets (use the same format) instead of completing these pages.

INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

ORD027734359

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

RT A - You m	nust provide th	e results of at le	ast one analysi	s for every pol		ole. Complete		each outfall.	See instruct	ions for additior	nal details.	
				. EFFLUENT				3. UN			TAKE (option	ial)
OLLUTANT	a. MAXIMUM	DAILY VALUE	b. MAXIMUM 30 DAY VALUE		c.LONG TERM AVRG. VALUE		d. NO. OF	(specify i)	Diank)	a, LONG AVERAGE	TERM VALUE	b. NO. OF
	(1)	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a, CONCEN- TRATION	b, MASS	CONCENTRATION	(2) MASS	ANALYSES
lochemical ygen Demand )D)	28						1	mg/l	1bs			
Themical ygen Demand (D)	50						1	mg/l	1bs			
otal Organic bon (TOC)	19			1.			1	mg/l	lbs			
fotal Suspended ids (TSS)	13						1	mg/l	lbs			
(mmonia (as N)	0.3						1	mg/l	lbs			
low	VALUE		VALUE		VALUE					VALUE		
A CHARLET	6000		6000		4000		22	N/A	gal			
emperature	VALUE VALUE VALUE						VALUE					
nter)	12 10		3	°C								
'emperature	VALUE		VALUE		VALUE					VALUE		
nmer)	26		25			3	°C					
H /*	MUMINIM	MUMIXAM MUMINIM MUMIXAM MUMIXAM				GT.LUD.ADDG						
"	6.0	7.0	6.0	6.6			23	STANDARD UNITS				

RT B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

	104401	2. MA	RK 'X'	, s # + ;			FFLUENT				4. UN	IITS		AKE (optional	7
		a. Be-	D. BE- LIEVED AB- SENT	a. MAXIMUM E	DAILY VALUE	b. MAXIMUM 30	DAY VALUE	c.LONG TERM (if avai	AVRG. VALUE	d NO. OF	a. CONCEN-	b, MASS	a, LONG	TERM E VALUE	b. NO. OF
	avallable)	PRE- SENT	SENT	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(I) CONCENTRATION	(2) MASS	YSES	TRATION	U, M A 3 3	CONCENTRATION	(2) MASS	ANAL- YSES
	romide 959-67-9)		Х	<0.5	ND			٧.		1	mg/l	1bs			
	hlorine, al Residual		х	<0.5	ND					1	mg/l	1bs			
Koppers	olor	Х		300	N/A					1	Pt-Co	N/A			
ers(	ecal :: iform	Х		114	N/A					1	Colonies 100 ml	N/A			
4	luoride 984-48-8)	X		0.2	0.01					1	mg/l	1bs_			
34	litrate— rite (as N)	Х		<0.3	ND					1	mg/l	1bs			

ITEM V-B CONTINUED FROM FRONT

1. POLLUT-		RK 'X'				EFFLUENT	er e garagaga a make as sa g		والمتعارضين	क्षेत्र 4. UI	NITS	** - 5. INT	AKE (optional)	· ·
ANT AND	3. 8E-	D. BE- LIEVED AB- SENT	a, MAXIMUM E	AILY VALUE	b, MAXIMUM 3	ODAY VALUE	c.LONG TERM	AVRG. VALUE	d. NO. OF	a. CONCEN-	b. MASS	A PERAG	E VALUE	b. NO. OF
(if available)	SENT	SENT	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	YSES	TRATION	D. MA35	CONGENTRATION	(2) MASS	ANAL-
g. Nitrogen, Total Organic (as N)	Х		0.8	0.04					1	mg/l	lbs			
h. Oil and Grease	х		1.7	0.08	1.7	0.08	0.85	0.03	23	mg/l	1bs			
i. Phosphorus (as P), Total (7723-14-0)	Х		0.2	0.01					1.	mg/l	1bs			
J. Radioactivity			the state of the state of	3 T		:	4.156 7.1	·,	75.4			1. Sept. 1. 24. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
1 m 1 m 2019 1 3		Х	N/A	N/A					0	N/A	N/A			
(2) Beta, Total		х	n/A	N/A	:				0.	N/A	N/A			
(3) Radium,: Total		х	N/A	N/A					0	N/A	N/A			
(4) Radium 226, Total		х	N/A	N/A.					0	N/A	Ν/A			
k. Sulfate	Х		8.8	0.44					1	mg/l	1bs	·		
i. Suifide (as 8)	Х		0.03	0.0015					1	mg/l	1bs			
m. Sulfite (as SO3) (14265-45-3)	Х		<5.0	. ND					1	mg/l	lbs			
n. Surfactants	Х		0.72	0.036				· · · · · · · · · · · · · · · · · · ·	1	mg/l	lbs			
o. Aluminum, Total (7429-90-5)	Х		<0.1	ND					1	mg/l	lbs			
p. Barlum, Total (7440-39-3)	Х		0.017	<0.001					1	mg/l	1bs			
q. Boron, Total (7440-42-8)	Х		0.1	0.005					1	mg/l	.1bs			
r. Cobalt, Total (7440-48-4)	Х		<0.05	ND					1	mg/l	1bs			
s. Iron, Total (7439-89-6)	Х		5.8	0.29					1	mg/l	1bs			
t. Magnesium, Total (7439-95-4)	X		0.9	0.045			·		1	mg/1	1bs			
u. Molybdenum, Total (7439-98-7)	Х		0.05	ND					1	mg/1	1bs			
v. Manganese, Total (7439-96-5)	Х		5.5	0.275					1	mg/l	lbs			
w. Tin, Total (7440-31-5)	Х		0.1	. ND					1	mg/l	1bs			
x. Titanlum, Total (7440-32-6)	Х		0.05	ND					1	mg/l	lbs			

EPA I.D. NUMBER	(copy from	Item 1 c	f Form 1	OUTFALL NUMBER	
				1	

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INUED FROM PAGE 3 OF FORM 2-C

ORD027734359

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IT C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe its place. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

LLUTANT	2.	MARK	'X'				FFLUENT				4. UN	NITS 6 5	5. IN 7	AKE (optio	nal)
ND CAS UMBER	ATEST	b. se-	C BE-	B, MAXIMUM E	AILY VALUE	b. MAXIMUM 3	DAY VALUE	c.LONG TERM	AVRG. VALUE	d NO.OF	a CONCEN-		8, LONG		b. NO.0
available)	RE- GUIR- ED	PRE-	SENT SENT	CONCENTRATION	(2) MASS	(1)	(2) MASS	CONCENTRATION	(2) MASS	ANAL- YSES	a. CONCEN- TRATION	b. MASS	(1) CONCEN-	(2) MASS	YSES
LS, CYANID								·					:		
ntimony, (7440-36-0)	х			<0.1	ND			·		1	mg/l	1bs			
rsenic, Total -38-2)	Х			<0.1	ND					1	mg/l	1bs			
eryllium, 7440-41-7)	Х			<0.005	ND					1	mg/l	1bs			
admium, (7440-43-9)	Х			<0.05	ND					1	mg/l	lbs.			
hromlum, (7440-47-3)	Х			<0.05	ND				<del></del>	1	mg/l	lbs			
pper, Total 50-8)	Х			<0.05	ND					1	mg/l	lbs			
ad, Total 92-1)	Х			<0.1	ND					1	mg/l	1bs			
fercury, Total	Х			<0.0005	ND					1	mg/l	lbs			
lickel, Total )-02-0)	Х			<0.05	ND					1	mg/l	1bs			
Selenium, (7782-49-2)	Х			<0.1	ND					1	mg/1	1bs			
Silver, Total 1-22-4)	Х			<0.05	ND					1%	mg/l	1bs			
Thallium, (7440-28-0)	Х			<0.1	ND					1	mg/1	1bs			
(7440-28-0)  Zinc, Total )-66-6)  Cyanide, (57-12-5)  Phenols,	Х			ó.05غ	ND					1	mg/1	lbs			
Cyanide, (57-12-5)	Х			0.02	0.001					1	mg/1	1bs			
Phenois,	Х			0.25	0.013	0.25	0.013	0.156	0.005	23	mg/1	lbs			
₹IN	<u> </u>	1		·	<del></del>	<del>'</del>		· · · · · · · · · · · · · · · · · · ·	0.005	ر ہے ۔		LUS	<u> </u>		
8-Tetra-	Γ	T	7,7	DESCRIBE RES	E RESULTS										
odibenzo-P. in (1764-01-6)	j		X												

Form 3510-2C (Rev. 2-85)

. POLLUTANT	2. 1	MARK	.x.				EFFLUENT				4. UN	IITS	5. INT	AKE (optio	nal)
AND CAS NUMBER	a rust	b. se-	C BE-	8, MAXIMUM E	DAILY VALUE	b, MAXIMUM 3	O DAY VALUE	c.LONG TERM	AVRG. VALUE	d, NO.OF	a. CONCEN-		B. LONG		b. NO. OF
(if available)	AUIR-	PHE	SENT PB- PIENED	(I)	(2) MASS	(1)	(2) MASS	CONCENTRATION	(2) MASS	ANAL- YSES	TRATION	b, MASS	(I) CONCEN-	(2) MASS	ANAL- YSES
C/MS FRACTION	– voi	ATIL	Е СОМ	POUNDS		ı		·							
V. Acrolein 107-02-8)	х			< 200	ND	1				1	ug/l	lbs			
V. Acrylonitrile 107-13-1)	х			< 200	ND					1	ug/l	lbs			
V. Benzene 71-43-2)	х			< 2	ND					1	ug/l	1bs			
V. Bis (Chloro- iethyl) Ether 542-88-1)	X			< 0.5	ND		-			1	ug/l	1bs			
V. Bromoform 75-25-2)	Х			< 1	ND					1	ug/l	1bs			
V. Carbon etrachlorida 36-23-5)	Х			< 0.5	ND					1	ug/l	lbs			
V. Chlorobenzene 108-90-7)	Х			< 0.5	. ND .					1	ug/l	lbs			
V. Chlorodi- romomethane 124-48-1)	Х			< <sub>0.5</sub>	ND					1	ug/l	lbs			
V. Chloroethane 75-00-3)	X			< 10	ND					1	ug/l	1bs			
0V. 2-Chloro- thylvinyl Ether 110-75-8)	X			< 50	ND					1	ug/l	lbs			
1V. Chloroform 37-66-3)	Х			< 0.5	ND					1	ug/l	1bs			
2V. Dichloro- romomethane 75-27-4)	х			< 0.5	ND					1	ug/l	lbs			
3V. Dichloro- ifluoromethane 75-71-8)	x			< 5	ND					1	ug/l	1bs			
4V. 1,1-Dichloro- thane (75-34-3)	Х			< 0.5	ND					1	ug/l	1bs			
5V. 1,2-Dichtoro- thane (107-06-2)	Х			< 1	ND				·	1	ug/l	1bs			
6V. 1,1-Dichloro- thylene (75-35-4)	х			< 0.5	ND				_	1	ug/l	1bs			
7V. 1,2 <sup>2</sup> Dichloro- ropane (78-87-5)	Х			< 1	ND					1	ug/l	1bs			
8V. 1,3-Dichloro- ropylene (542-75-6)	X			< 0.5	ND					1	ug/l	lbs			
9V. Ethylbenzene 100-41-4)	Х			< 1	ND					1	ug/l	1bs			
0V. Methyl romide (74-83-9)	х			< 10	. ND					1	ug/l	lbs			
1V. Methyl :hloride (74-87-3)	x			< 10	ND					1	ug/l	lbs			

<sup>&#</sup>x27;A Form 3510-2C (Rev. 2-85)

' Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER
ORDO27734359 001

INUED FROM PAGE V-4

	NUED FROM		: V-4		والتناوي والتناوي	UKL	0027734359	وبوستبات فسنطعه	1 001		<u> </u>					
0	LLUTANT	2. 1	MARK		e :			EFFLUENT					IITS		AKE (optio	nal)
1	LLUTANT ND CAS UMBER	BTEST.	D. 85-	PENT TIEVED	a, MAXIMUM I	DAILY VALUE	b. MAXIMUM 3	O DAY VALUE	c.LONG TERM (if ava	AVRG. VALUE	d NO.OF ANAL- YSES	8. CONCEN- TRATION	b, MASS	8. LONG AVERAGE	TERM VALUE	b. NO. OF
_	available)	QUIR.	BENT	SENT	CONCENTRATION	(Z) MASS	(1)	(2) MASS	(1)	(2) MASS	YSES	TRATION	D, MA33	(1) CONCEN-	(2) MASS	ANAL- YSES
1	SFRACTION	- VO	LATIL	E COM	POUNDS (conti	nued)										
ri	Methylene ide (75-09-2)	х			<2	ND					1	ug/l	1bs			
٥	1,1,2,2-Tetra- bethane 4-5)	Х			<0.5	ND					1	ug/l	lbs			
e	Tetrachloro- ine (127-18-4)	Х			<0.5	ND					1	ug/l	lbs			
8	Toluene 18-3)	Х			. 1	<0.0001					1	ug/l	1bs			
0	1,2-Trans- proethylene 50-5)	Х			<0.5	ND					1	ug/l	1bs			
5	1,1,1-Tri- ethane i-6)	Х			<0.5	ND					1	ug/l	1bs			
٥	I,1,2-Tri- ethane )-5)	Х			<0.5	. ND					1	ug/l	lbs			
e -	Trichloro- ine (79-01-6)	Х			<0.5	. ND	,		:		1	ug/l	1bs			
٥	Trichloro- methane 9-4)	Х			<1	ND					1	ug/l	1bs			
·j.	Vinyl de (75-01-4)	Х			<10	ND					1	ug/l	1bs			
15	SFRACTION	- ACI	D COV	/IPOUN	DS											<u> </u>
5-1 7 	Chloropheno( '-8)	Х			<1	ND					1	ug/l	1bs			
۰, اد 	4-Dichloro- I (120-83-2)	Х	_		< 1	ND					1	ug/l	lbs			
:,: o	4-Dimethyl- I (105-67-9)	Х	,		< 2	ND					1	ug/l	1bs			
4	6-Dinitro-O- (534-52-1)	Х	****		< 5	. ND					1	ug/1	1bs			
ر اد 	4-Dinitro- I (51-28-5)	Х			< 50	ND		· · · · · · · · · · · · · · · · · · ·			1	ug/l	lbs			
_	Nitrophenol 5-5)	Х			<10	ND					1	ug/1	lbs			
	Nitrophenol 12-7)	Х			<100	ND					1	ug/1	1bs			
	Nitrophenol 12-7) Chloro-M- (59-50-7) entachloro- I (87-86-5)	Х			< 2	ND					1	ug/l	1bs			
7343	entachloro- i (87-86-5)	Х			< 5	ND	·				1	ug/l	lbs			
9	)5·2)	Х			< 5	ND					1	ug/1	lbs			
0	2,4,6-Tri- phenol 5-2)	Х			< 2	ND					1	ug/l	lbs			

PAGE V-5

3817-1611	IED.	EDOM	****	FRONT
IN LINE	JE D	FRUN	1 HE	FRUNI

. POLL	UTANT		MARK					FFLUENT				4. UI	RITS	5. INT	AKE (optio	nal)
AND	CAS	ATEST	b. 85-	C DE.	8. MAXIMUM D	AILY VALUE	p. MAXIMUM 3	DAY VALUE	C.LONG TERM /	VRG. VALUE	d NO.OF	B. CONCER-	b. MASS	A LONG	TERM	b. NO. O
	silable)	GUIR-	PRE-	SENT.	(1)	(2) MASS	(1) CONCENTRATION	(2) MASS	(I)	(Z) MASS	YSES	TRATION	U. MA33	(1) CONCEN-	(z) MASS	YSES
C/MS F	RACTION	- BAS	E/NE	JTRAL	COMPOUNDS								;			
B. Acen 33-32-9)	aphthene	Х			< 1	ND	,			_	1	ug/l	1bs			
B. Acen 208-96-8	naphtylene B)	Х			< 1	ND	i				1	ug/l	1bs			
B. Anth 120-12-	racene 7)	Х			. 1	<0.0001					1	ug/l	1bs			
B. Benz )2-87-5)		Х			< 200	ND		÷			1	.ug/l	lbs			
B. Benz nthrace i6-55-3	ene	Х			< 3	ND					1	ug/l	lbs			
	50-32-8)	Х			< 5	ND	,				1	ug/1	1bs			
B. 3,4-B uoranth 205-99-3	nene	Х			< 5	ND					1	ug/l	lbs			
B. Benz erylene 191-24-2		Х			< 5	ND			·		1	ug/1	lbs			
B. Benz lugrant 207-08-	hene 9)	Х			< 5	ND					1	ug/1	lbs			
thoxy)		Х			< 1	ND					1	ug/l	lbs			
18. 8is (hyl) Et (11-44-	(2-Chloro- ther 4)	Х			< 1	ND					1	ug/l	lbs			
opyl) Ethe	-Chloroiso- or (102-60-1)	Х			< 1	ND					1	ug/1	lbs			
exyl) P1 117-81-	(2-Ethyl- hthalate 7)	Х			< 2	ND					1	ug/l	lbs			
4B. 4-B henyl P ther (10		Х		· · · · · · · · · · · · · · · · · · ·	< 2	ND					1	ug/l	lbs			
5B. But	tyl Benzyl e (85-68-7)	Х			< 5	. ND					1	ug/l	lbs			
6B. 2-C aphthal 31-58-7	lene )	Х			₹ 1	. ND					1	ug/1	lbs			
7B. 4-C henyl P ther (7	hloro- henyl 005-72-3)	Х			< 1	ND					1	ug/l	lbs			
8B. Chr ≥18-01-	9)	X			< 3	ND				a a same a same		ug/l	lbs_			
33-70-3	)	.:. <u>X</u>			< 5	ND					11	ug/l	lbs			<u> </u>
OB. 1,2 enzene	-Dichloro- (95-50-1)	Х			< 1	. ND					1	ug/l	lbs			
	l-Dichloro- (541-73-1)	Х			< 1	ND				<del>-</del>	1	ug/l	lbs			

EPA I.D. NUMBER (copy from Hem 1 of Form 1) OUTFALL NUMBER

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

TINUED FRO	M PAC	3E V-6				ORDO2773435		00				OMB No. 204 Approval expi			-
LLUTANT		MARK	x· I				EFFLUENT	<u> </u>	<u> </u>	<del></del>	4. UI	VITS	5. IN	TAKE (optio	onal) '
					DAILY VALUE			c,LONG TERM	AVRG. VALUE	d, NO. OF				TERM	b. NO.OF
available)	NG RE-	D. BE- C LIEVED LI PRL- SENT	AB	CONCLUTRATION	(2) MASS	(I) CONCENTRATION	(2) MASS	(1) QUQ	(2) MASS	ANAL-	8. CONCEN-	b, MASS	AVERAG	E VALUE	ANAL-
SERACTION	LED.	SE WELL	TOAL	COMPOUNDS		CONCENTRATION	(2) = 7.3	CONCENTHATION	(2) MASS	1363			THATION	127 = 22	1
		Y	INAL			<del> </del>	· · · · · · · · · · · · · · · · · · ·						<del> </del>		<del> </del>
1,4-Dichloro- ine (106-46-7)	•		-	× 1	ND					1	ug/l	1bs			
3,3'-Dichloro-	-							1.							
dine 4-1)	L x		1	< 50	ND	1				1	ug/l	lbs			
Diethyl	_	<del>                                     </del>				<del> </del>									<del> </del>
ilate 6-2)	Х			< 5	ND					1	ug/l	lbs			
Dimethyl		<del></del>		·	<del> </del>	<del> </del>		<del></del>					<del> </del>		<del> </del>
ılate	Х			< 1	ND					1	ug/l	1bs			
11-3) DI-N-Butyl	-	<del>  -</del>						· · · · · · · · · · · · · · · · · · ·					<del> </del>		<del> </del>
ılate	х		1	< 1	ND					1	ug/l	lbs		ľ	1
4-2)	^			. т	ND	<u> </u>					ug/1	105	ļ <u>.</u>		ļ
2,4-Dinitro-	,,		1	< 5	MD					,	- /1	71.			
ne (121-14-2)	Х	ļ			ND				·	1	ug/l	lbs			ļ
2,6-Dinitro-								1					İ		
ne (606-20-2)	X			< 5	ND					1	ug/l	1bs			
Di-N-Octyl															
alate 84-0)	X			< 2	ND		į	}		1	ug/l	lbs	1	•	1
1,2-Diphenyi-					· · · · · · · · · · · · · · · · · · ·	<del> </del>		<del> </del>		<del>                                     </del>			1		<del> </del>
zine (as Azo-	X			< 5	ND				ĺ	1	ug/l	lbs			
ne) (122-66-7)	1	<del>  -</del>					-	<del> </del>		<del> </del>	<u> </u>		<u> </u>	<del></del>	
Fluoranthene 44-0)	X			6	<0.0003					1	ug/l	lbs	ŀ	}	1
		<del>  -</del>				<del> </del>		<del> </del>		<del>                                     </del>	-0,-		<del> </del>	<b> </b>	<del> </del>
Fluorene 3-7)	X			< 1	ND		]			1	ug/l	lbs			j
- <del> </del>	<u> </u>					ļ		ļ			467 =	100	ļ	ļ	<b></b>
axachlorobenzene	v	1	- 1	< 1	. ND					1	/1	lbs	į.	l .	
	X				. ND					1	ug/l	IDS			
Hexa- obutadiene										١,	,,	1	1	l	İ
8-3)	X			< 2	ND			1	1	, 1	ug/l	lbs			
Hexachloro-													1		
pentadiene 7-4)	Х			<b>&lt;</b> 5	ND		** * * *	5 00 mg - 5	the country of the same of	11	ug/1	lbs			
Hexachloro-	<b>†</b>					<u> </u>		<del></del>	-	<del> </del>					<del>                                     </del>
ıe (67-72-1)	Х			< 3	ND				Į	1	ug/l	1bs		į.	
Indeno	1	<del>  </del>				<del> </del>	<u> </u>	<del> </del>	1	<u> </u>	1		<del> </del>	<del> </del>	<del></del>
3-cd) Pyrene	Х			< <sub>5</sub>	ND		,		:	1	ug/l	1bs			
39-5)	<u> </u>	<del>  -</del>				<u> </u>		<del>                                     </del>		ļ	-87-			ļ	<del> </del>
Isophorone 9-1)	X		- 1	< 2	ND		ļ			1	ug/l	lbs			
<del></del>	^	1		< 4	ND .		<b>!</b>			ļ <u>.</u>	ug/1	102	<b>-</b>	ļ	<del>- </del>
Naphthalene	١.	1 1		,	3775	•				١,	,,			İ	İ
.0-3)	X	1		< 1	ND	<u> </u>		<u> </u>		1	ug/l	1bs	<u> </u>	<u> </u>	
Nitrobenzene		] [		_											
5-3)	X			< 2	ND			<b>_</b>		1	ug/l	lbs			
N-Nitro-															]
nethylamine 5-9)	X	:		< 50	ND					1	ug/1	lbs			
N-Nitrosodia	Х	1		< 5	ND					1	110 /1	1,		T	1
opylamine -64-7)	^			\ \ \	112	1				1	ug/l	lbs	i		1
.04-7)	1	1			<u> </u>				خوب سیسی میک			<del></del>			

POLLUTANT	2.	MARK	'χ'···				FFLUENT				4. UN	IITS	5. IN 7	TAKE (opti	onal)
AND CAS NUMBER	8, TE ST	b. 8 2-	C BE.	a. MAXIMUM	DAILY VALUE	b. MAXIMUM 3	DAY VALUE	C.LONG TERM	AVRG. VALUE	d, NO.OF	IA CONCENI		a, LONG AVERAG	TERM	b. NO. OF
(if available)	GUIR. ED	PHE	SENT	(I)	(z) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASE	ANAL- YSES	TRATION	b, MASS	(I) CONCEN-	(2) MASS	YSES
C/MS FRACTION	- BA	SE/NE	UTRAL												1
IB. N-Nitro- diphenylamine 6-30-6)	Х			< 5	ND					1	ug/l	1bs	,		
IB. Phenanthrene 5-01-8)	Х			< 1	ND					1	ug/1	lbs			
8. Pyréne 29-00-0)	Х			1	< 0:0005					1	ug/l	1bs			
iB. 1,2,4 - Trl- lorobenzene 20-82-1)	Х			< 1	ND					. 1	ug/1	lbs			
MS FRACTION	- PES	TICID	ES 🕾 🤚	estario estar						1 - 1	•	1 1 1 20			
Aldrin 09-00-2)	Х			< 3	ND					1	ug/l	lbs			
. а-внс 19-84-6)	х			< 5	ND					1	ug/1	lbs			
.β-внс 19-85-7)	х			< 5	ND					1	ug/l	lbs			
. γ-BHC 3-89-9)	х			<b>₹</b> 5	ND					1	ug/l	1bs			
.δ-внс 19-86-8)	х			< <sub>5</sub>	ND					1	ug/l	lbs			
: Chlordane 7-74-9)	х			< 50	ND					1	ug/l	lbs			
. 4,4'-DDT 0-29-3)	х			< 5	ND					1	ug/l	lbs			
. 4,4'-DDE 2-55-9)	х			 < 5	ND					1	ug/l	lbs			
, 4,4'-DDD	х			< 5	. ND					1	ug/l	lbs			
P. Dieldrin 0-57-1)	x			< 5	ND					1	ug/l	lbs · ·			
P. a-Endosulfan 15-29-7)	х			< 20	ND					1	ug/1	1bs			
P. β-Endosulfan 15-29-7)	х			< 20	. ND		·			1	ug/l	lbs	_		
P. Endosulfan Ifate 031-07-8)	х			< 20	ND					1	ug/l	lbs			
P. Endrin 2-20-8)	Х			< 100	. ND						ug/l	1bs			
P. Endrin dehyde 421-93-4)	Х			< 100	ND					1	ug/l	1bs			
P. Heptschlor 3-44-8)	х			< 2	ND					1	ug/1	1bs			,,

A Form 3510-2C (Rev. 2-85)

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1. POLLUTANT	2.	MARK 'X'			3, 1	EFFLUENT	,			4. UI	NITS	5. IN 1	TAKE (option	
AND CAS NUMBER	a TEST	D. DE- C. D LIEVED LIEV PRE- AB SENT SEI	e. a. MAXIMUM I	DAILY VALUE		O DAY VALUE	c.LONG TERM	AVRG. VALUE	d NO. OF		b. MASS	a, LONG AVERAG		b NO.OI
(if available)	<u> </u>	<u> </u>	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	(1)	(2) MASS	YSES	TRATION		(I) CONCEN-	(2) MASS	YSES
GC/MS FRACTION	V - PES	STICIDES (	continued)	<u> </u>								<u> </u>		
17P, Heptachlor Epoxide (1024-57-3)	Х		<5	ND					1	ug/l	1bs			
18P. PCB-1242 (53469-21-9)	х		<100	ND					11	ug/l	1bs			
19P, PCB-1254 (11097-69-1)	Х		<100	ND					1	ug/l	1bs			
20P. PCB-1221 (11104-28-2)	Х		< <sub>100</sub>	. ND					1	ug/l	lbs			
21P. PCB-1232 (11141-16-5)	Х		<100	ND					1	ug/l	lbs			
22P. PCB-1248 (12672-29-6)	Х		<100	ND					1	ug/l	1bs			
23P, PCB-1260 (11096-82-5)	х		<100	ND					1	ug/l	1bs			
24P, PCB-1016 (12674-11-2)	X		<100	ND				;	1	ug/l	lbs			
25P, Toxaphene (8001-35-2)	х		<100	ND					1	ug/l	lbs			

PAGE V-9

KOPPERS INDUSTRIES

FAX TRANSMITTAL

Koppers Industries, Inc. 7540 N.W. Saint Helens Road Portland, OR 97210-3663

o: Bill Sween	NNGEN		DATE:	9/19/24	***************************************
o: Bill Sween ROM: Amos			TOTAL # (	of pages: 2	
E: DEG/NPOES-	Stoam WATER	pennif's			
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Note: See fax and supporting data that was sent to Amos on 9/30/94!



September 1, 1994

DEPARTMENT OF ENVIRONMENTAL

QUALITY

NORTHWEST REGION

T J TURNER
GENERAL FOREMAN
KOPPERS INDUSTRIES
7540 NW ST HELENS ROAD
PORTLAND OR 97210-3663

Re:

WQ-MULTNOMAH COUNTY FILE NO 47430, PERMIT NO 101003

SITE VISIT

Dear Mr. Turner:

Thank you for your cooperation and time when I visited your facilities on August 2, 1994. Based on our conversation at that time, I am writing to confirm the following:

Due to the small number of vehicles washed on site and the absence of trailer wash water discharge, no wash water permit will be required at this time. Please be advised that if operations change or if the permit requirements are modified, one may be required in the future. Also, a permit will be required if wash water from the trailer wash facility is allowed to discharge to the storm drains.

It appears that your facility does need a storm water permit. While no compliance schedule has been set, be advised that the facility is currently in violation of the Clean Water Act. Please submit the permit application as soon as possible.

Sincerely,

Larry Bailey

Compliance Inspector

Larry Barley

lb

cc:

JR Sheetz Paul Keiran

File



2020 SW Fourth Avenue Suite 400 Portland, OR 97201-4987 (503) 229-5263 Voice/TDD DBQ-1 KOPPERS INDUSTRIES

ENVIRONMENTAL SERVICES DEPARTMENT 436 Seventh Avenue-Pittsburgh, PA 15219-1800





AMOS KAMERER PORTLAND 503-285-2831



# 6 PAGES FOLLOWS THE COVER PAGE!

# **MESSAGE:**

Enclosed are some of the completed forms that was submitted back in 1992 for the Portland NPDES renewal application. Note the pertinent sections that I have circled. It seems to me that a stormwater permit is not needed. What's the inspector's problem?

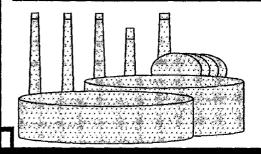
Didn't you show him your NPDES application? Doesn't the permit clearly indicate stormwater and boiler blowdown?

Any questions, call me. Regards,

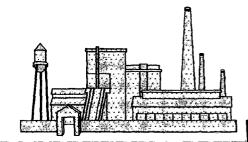
**WES** 

p.s. YOU ARE NOT IN VIOLATION!!!

PHONE 412-227-2883 W. E. SWEARINGEN FAX 412-227-2423







# GUR PERMIT

Permit Number: 101003 Expiration Date: 11/30/97

File Number: 47430 Page 1 of 4 Pages

## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

WASTE DISCHARGE PERMIT Department of Environmental Quality 811 S.W. Sixth Avenue, Portland, Oregon 97204 Telephone: (503) 229-5696

Issued pursuant to ORS 468B.050 and The Federal Clean Water Act

ISSUED TO:

Koppers Industries, Inc. 7540 N.W. St. Helens Rd. Portland, OR 97229

PLANT TYPE AND LOCATION:

Creosote Terminal 7540 N.W. St. Helens Rd. Portland, Oregon

SOURCES COVERED BY THIS PERMIT:

Outfall unber Outfall Location

Tank Farm Runoff and Boiler Blowdown

Type of Waste

R.M. 6.5

RECEIVING STEEM INFORMATION:

Basin: Willamette Sub-basin: Lower Willamette Hydro Code: 22--WILL 6.5 D

Receiving Stream: storm ditch to

Willamette River

County: Multnomah

EPA REFERENCE NO: OR-000077-9

Issued in response to Application No. 997220 received 7/14/92.

This permit is issued based on the land use findings in the permit record.

Charles K. Ashbaker, Manager

NOV 1 9 1992

Water Quality, Northwest Region

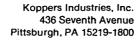
Date

#### PERMITTED ACTIVITIES

Until this permit expires or is modified or revoked, the permittee is authorized to construct, install, modify or operate a waste water collection, treatment, control and disposal system and discharge to public waters adequately treated waste waters only from the authorized discharge point or points established in Schedule A and only in conformance with all the requirements, limitations, and conditions set forth in the attached schedules as follows:

	Page
Schedule A - Waste Discharge Limitations not to be Exceeded	2
Schedule B - Minimum Monitoring and Reporting Requirements	3
Schedule C - Compliance Conditions and Schedules	- '
Schedule D - Special Conditions	4
General Conditions	Attached

Unless authorized by another NPDES permit, each other direct and indirect waste discharge to public waters is prohibited.



EXPRESS MAIL



July 9, 1992

Telephone: (412) 227-2001

Mr. Charles K. Ashbaker Water Quality, Northwest Region Department of Environmental Quality Business Office 811 S.W. Sixth Avenue Portland, OR 97204

Re: NPDES Permit Renewal Application

Permit No. 100419 File No. 47430 Multnomah County

Dear Mr. Ashbaker:

Enclosed are completed application forms and check #3082179 in the amount of Eight Hundred Dollars (\$800.00 - \$50.00 filing fee and \$750.00 processing fee) for the renewal of the NPDES Permit for our Northwest Terminal.

To minal operations have not changed significantly during the time covered by the current permit. No process wastewater is generated by terminal operations, consequently only non-contaminated storm water and boiler blowdown is discharged. We believe that the current permit limitations provide adequate protection to the environment and achieves a reasonable cost to benefits ratio we encourage the agency to reissue the existing permit without major modifications.

If you have any questions please contact John Oxford, Plant Manager, at 503-286-3681 or me at 412-227-2883 or write me at the above address.

Sincerely yours,

William E. Swearingen,

wearmaen

Manager, Environmental Programs

Enclosures

cc: John A. Oxford, Northwest Terminal

bcc: L. F. Flaherty, K-1750

J. R. Batchelder, K-1701

## PETURN APPLICATION TO:

DEPARTMENT OF ENVIRONMENTAL QUALITY
SUSTRIESS OFFICE

811 S.W. Sirch Avenue Fortland, CR 97274 (503) 229-5309

## APPLICATION

## FOR RENEWAL OF

## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPDES-R)

259 USE ONLY

Appl. No.:

File No.: 47430

Received:

W IPA No.: CR-

STATE OF OREGON

REFERENCE INFORMATION			·					<u> </u>
Koppers Industri	es, Inc.		Present P	ermit No.:	10041	9		
Official	Name of Applicant (Our	ner)	1					
Northwest Termin	<b>a</b> 1 .		Date Expi	res:	11/30	/92		
NOTERINGO TOTAL	Faciliy Name		-					
7540 Northwest S	-	ıd .	Ent	er Site Lo	cation by	Latitude a	nd Longitu	de:
Portland	Address OR	97229		LATITUDE			LCHGITUDE	· · · · · · · · · · · · · · · · · · ·
City	State	Zip	1. Deg.	2. Min.	3. Sec.	1. Deg.	2. Hin.	3. Sec.
	: ; ;		45	34	38	122	45	32
John A. Oxford	esponsible Official	<del></del>	Alt	ernate Resi	onsible Of	ficial or	Chief Open	rator
Plant Manager 7540 N.W. St. He	len's'Read (503	3) 286-3681			ıT	tle		:
Portland, OR 972	<del>29</del>	Phòne	-	Address or	Location		Pl	none
	ription of activities :						<del></del>	
Dischare created	vastevaters into the warge stormwater t	aters of						
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GENERAL QUESTIONS								•
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SPECIAL QUESTIONS AND R	REQUESTED INFORMATION							
. If any changes in ope proposal.	erations or vaste quant	ity or quality are	anticipated in	the near	future, pl	ease attac	h an expla	nation o
. Please attach a brief	report which indicate	s your progress in	meeting the re	quirements	and limit	ations of	your prese	nt permi
LHEREBY CERTIFY THAT I	THE INFORMATION CONTAIN			D CORRECT	TO THE BES	ТОГ МҮКХ	OHLEDGE AN	D SELIEF
	nerty	Vice Pr	esident		·			72
Signature of Cor Legally Authorize			Tiele	:		ŧ	Da	te

#### INSTRUCTION - PERMIT RENEWAL APPLICATION

- A. Reference Information: Complete the required information in detail.

  If there has been a name change, address change or change in personnel since the last application, please make a special note to that effect.
- B. General Questions: If more space is needed than provided on the application form, please attached as many additional pages as necessary in order to supply whatever explanation or diagrams are needed to update the treatment and disposal methods used and the characteristics of the waste discharged or otherwise disposed.
- C. Special Questions and Requested Information:
  - 1. Please elaborate on any proposed expansions, cutbacks, improvements or changes of any kind which will or may affect the quantity or quality of pollutants discharged.
  - 2. Each condition of your present permit should be reviewed and an assessment made as to the success you have had in meeting the requirements and limitations.

## Signature on Application

The person who signs the application form will often be the applicant himself; when another person signs on behalf of the applicant, his title or relationship to the applicant should be shown in the space provided. In all cases, the persons signing the form should be authorized to do so by the applicant. An application submitted by a corporation must be signed by a principal executive officer of at least the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge(s) described in the form originate. In the case of a partnership or a sole proprietorship, the application must be signed by a general partner or the proprietor, respectively. In the case of a municipal, State, Federal or other public facility, the application must be signed by either a principal executive officer, ranking elected official or other duly authorized employee.

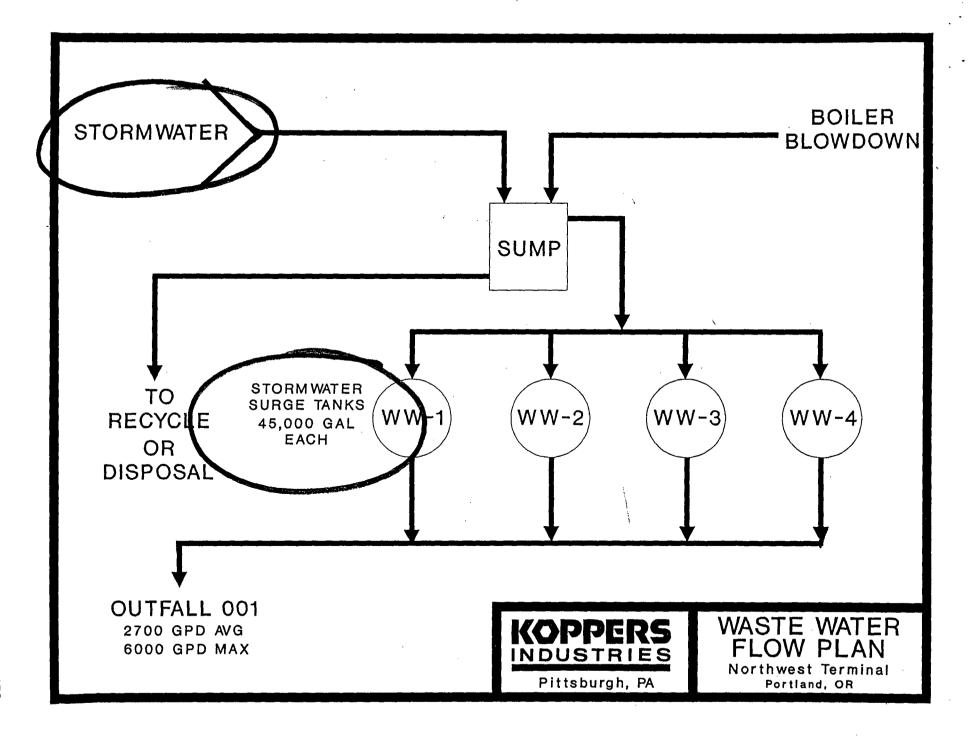
## Other Instructions

Submit this application as soon as possible. It should be submitted at <u>least 130 days prior</u> to the expiration of your present permit.

All NPDES Permit Applications are to be submitted to:

Department of Environmental quality Business Office 811 S.W. Sixth Avenue Portland, OR 97204

IW\WC7604



and the second of the entirely manager books of the endangeral desired as the decrease.

Please print or type in the unshaded areas only.

ORD027734359

FORM SEPA EX

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

I. OUTFALL L							
For each outfal	I, list the lati	tude and lo	ngitude o	f its location	to the near	est 15 seco	ands and the name of the receiving water.
A. OUTFALL NUMBER	B. 1	ATITUDE		C. L	ONGITUE	E	D. RECEIVING WATER (name)
(list)	I. DEG.	2. MIN.	3. 5EC.	1. DEG.	Z. MIN.	3. SEC.	
001	45	34	38	122	.45	32	Willamette River
							*
		ļ					
	<del></del>						
II. FLOWS, SOU	RCES OF PO	LLUTION	, AND TE	REATMENT	TECHNOL	OGIES	

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

b. LIST COL TABLE 2K 4A	DES FR E 2C-1
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C. Except for sto		ff, leaks, or sp lete the follo								it or seasonal? to Section III,			
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1. OUTFALL	a: 5	2. OPEF	RATIO	N/s) a	arit Çaraya Kası	a. I	DAYS	b. MONTHS		N RATE	b. TOTAL		
NUMBER		CONTRIBU	JTING list)	FLO	M Meetings	PER	WEEK	PER YEAR (specify	I, LONG TERM	2. MAXIMUM	(specify w	Z. MAXIMUM	C DUR-
(list)					<u>`                                     </u>		rage)	average)	AVERAGE	DAILY	AVERAGE	DAILY	(in days)
001	Stor	mwater		)			0.5	9	2.7	6.0	82.5/m	180/mo	244
							.						
III. PRODUCTION	ON	State 1		12 c+	regarder i	11 (5.3)						V., y 11 - 44.	
A. Does an effl:	ent guide	line limitatio lete Item III-I	n prom	ulgated	by EPA ur	nder Sect	ion 304	of the Clean	Water Act app	oly to your factor (V)			
B. Are the limit	ations in		efflue	nt guid		ssed in te	rms of p	production (o	r other measu		n)?		#
C. If you answe	ered "yes		, list the	e quan	tity which r	epresen	ts an ac	tual measure				ed in the term	s and units
used in the	applicabl	e emaent ga				<u></u>	<u> </u>		<del></del>		<del></del>	<del></del>	<u>ÿ</u>
• :	77. T 3.			17.5	AVERAGE I	DAILT F						2. AFFE OUTF	
B, QUANTITY PE	RDAY	b, UNITS OI	P MEASL	JRE .			C. OPE	(spec	uct, material cify)	, ETC.		(list outfall	
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	required ent equip nited to,	ment or prac	tices or	any odminist	ther enviro trative or en (complete t	nmental forcement the follow	progran nt order	ns which may s, enforcemen	affect the dint compliance	scharges desc	ction, upgradi ribed in this ap ers, stipulation	oplication? The s, court orders	is includes, s, and grant
IDENTIFICAT: AGREEI		CONDITION,	2. A		TED OUTF		er erge	3. BR	IEF DESCRI	TION OF PR	OJECT		CE DATE
			u. NO.	u, sol	or OS	CHARGE						a, ng- quirec	D PRO- JECTED
B. OPTIONAL: your discharge	ges) you	now have un	derway	or wh	nich you pl	an. Indi	cate wh	ether each p	rogram is nov	v underway o	nvironmental p r planned, and IS ATTACHEI	indicate you	may affect ur actual or

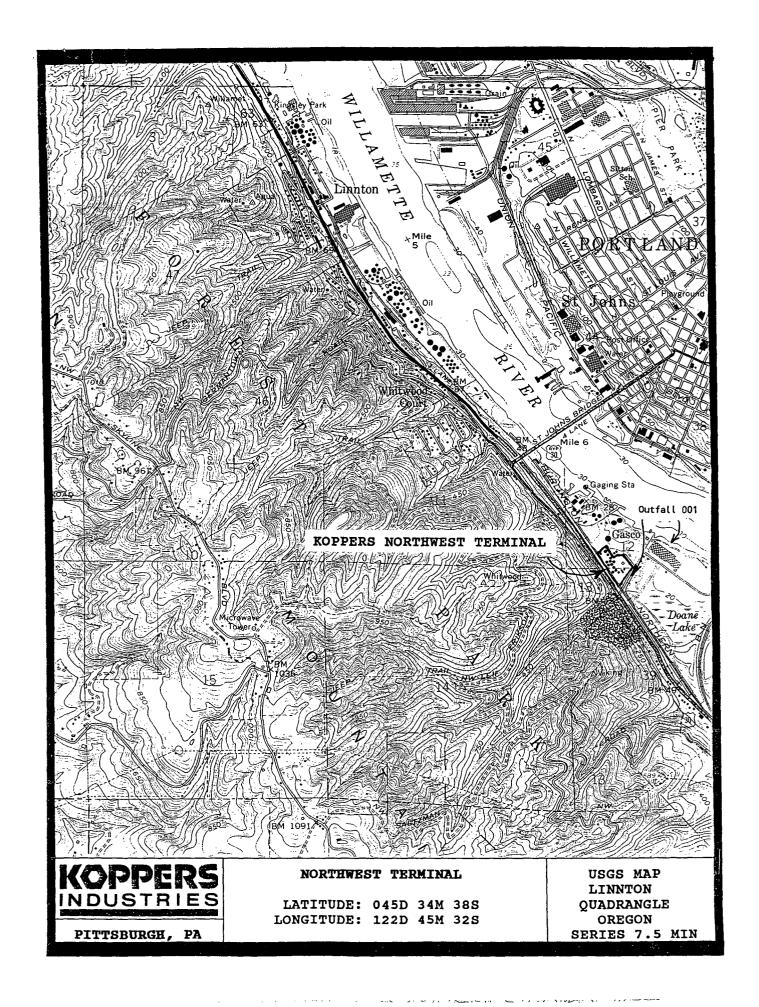
C. Except for storm ru	noff, leaks, or sp implete the follo			es described in	n Items II-A or		t or seasonal? to Section III,			,
		<del></del>	Marin Ja	3. FRE	QUENCY	<u> </u>		4. FLOW		<del></del>
1. OUTFALL	2 OPER	2 4 7 1 0	N(s)	a, DAYS	T		VRATE	L TOTAL		
NUMBER	CONTRIB	JTING	FLOW	PER WEEK	PER YEAR	I. LONG TERM	ngd)	I. LONG TERM	2. MAXIMUM	C DUR-
(list)		list)		(specify average)	(specify average)	AVERAGE	DAILY	AVERAGE	DAILY	(in days)
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III. PRODUCTION	7.4.5		Tarin ng apunga						W.Y. T. Fr.	91X 2X 3X
A. Does an effluent g								ility?		
YES (co	mplete Item III-l	в) 👬	र्ष ने असी अने । अस	Mary Service Service	# 1000 1200 150	No (to to	Section IV)			
B. Are the limitation	s in the applicabl	e efflue	nt guideline express	ed in terms of	production (or	other measur	e of operation	7/7		
YES (co	mplete Item III-	c) 🔠	to beginner of	34 - H. S.		X NO (go to	o Section IV)			
C. If you answered ' used in the applic	'yes'' to Item III-E cable effluent gu	3, list th ideline	e quantity which re , and indicate the a	presents an a ffected outfal	ctual measure ls.	ment of your l	evel of produc	ction, express	ed in the term	s and units
<del></del>			1. AVERAGE DA	AILY PRODUC	CTION				2 4 5 5 5	
				C. OPE	ERATION, PRODU	CT. MATERIAL	ETC.		2. AFFE	ALLS
B, QUANTITY PER DAY	b, UNITS O		URE		(spec				(list outfall	num bers)
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IV. IMPROVEMENTS		,		<b>经</b> 化银铁电路						
A. Are you now requ	ired by any Fed	eral, St	ate or local authorit	y to meet any	implementation	on schedule fo	r the constru	ction, upgradi	ng or operatio	n of waste-
water treatment ed	quipment or prac	tices o	r any other environe dministrative or enfo	mental progra	ms which may	affect the dis	scharges descr	ibed in this ap	optication? The	is includes,
or loan conditions.	·		YES (complete the			(X) NO (go to		rs, supulation:	s, court orders	, and grant
		·	AFFECTED OUTFA			Δ/10 120 1.			1 4. FIN.	AL COM
I. IDENTIFICATION ( AGREEMENT	F CONDITION,	8. NO.	b. sounce or olse		3. BRI	EF DESCRIP	TION OF PR	OJECT		AL COME
<del></del>	<del></del>	a. NO.	U. SOUNCE OF DISC.	ARGE	<del></del>			<del></del>	a. RE- QUIRED	D PRO-
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B OPTIONAL Van	nou steach addit		onte due1-1:			<del></del>				
B. OPTIONAL: You r your discharges) y	ou now have un	derway	eets describing any a ' or which you plar	iudicional wati n. Indicate wi	er pollution co hether each or	ntroi program Ogram is now	s ( <i>or other en</i> Lunderway o	<i>vironmental p</i> r planned and	<i>rojects which</i> i indicate vou	may arrect ractual or
planned schedules t	or construction.		ARK "X" IF DESC							

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT C	HARACTERISTICS	大学的数据的 (1886年1986年)	等。这个是不是,我是是这样,这些是什么。20
A, B, & C: See instructions be NOTE: Tables V-	efore proceeding — Complete one set of tables for A, V-B, and V-C are included on separate sheets r	r each outfall — Annotate the outf numbered V-1 through V-9.	
D. Use the space below to list discharged from any outfar possession.	t any of the pollutants listed in Table 2c-3 of the any of the pollutant you list, briefly describe	ne instructions, which you know o the reasons you believe it to be	or have reason to believe is discharged or may be present and report any analytical data in your
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Quinoline	Coal Tar Constituent		
			·
	NOT COVERED BY ANALYSIS		
byproduct?	C a substance or a component of a substance will be a substance wi		ture as an intermediate or final product or to Item VI-B)
Total Phenols Benzene Toluene Phenols Acenaphthene Acenaphtylene Chrysene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene			
			·

receiving water in	relation to your discharge wit	e that any biological test for acute or chronic tox thin the last 3 years?	icity has been made on any or	your discharges or on a
		(s) and describe their purposes below)	X NO (go to Secti	on VIII)
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				August officers of the Europe St. 1785
		formed by a contract laboratory or consulting fir	<b>t</b> ,	
ere any of the an	alyses reported in Item V per	dress, and telephone number of, and pollutants a such laboratory or firm below)	NO (go to Section	TD. POLLUTANTS ANALYZ
ere any of the an	alyses reported in Item V per  X YES (list the name, ad analyzed by, each		C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZ
ere any of the an	alyses reported in Item V per	dress, and telephone number of, and pollutants a such laboratory or firm below)  B. ADDRESS  12423 N.E. Whitaker Way	NO (go to Section	Form 2C
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COFFEY Laborates	alyses reported in Item V per  YES (list the name, ad analyzed by, each analyzed by, each analyzed by, each analyzed by, each analyzed by, each analyzed by, each analyzed by, each analyzed by, each analyzed by, each analyzed by each analyzed by each analyzed by each analyzed by law that this document approperly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel properly gather all by responsible for gathering the personnel gathering the per	and all attachments were prepared under my dind evaluate the information, the information submitted is, to the such laboratory or firm below)  B. ADDRESS  12423 N.E. Whitaker Way Portland, OR 97230	C. TELEPHONE (area code & no.)  (503) 254–1794  rection or supervision in accormy inquiry of the person or person of the person of the person of the person of the person of the person of the person or person of the person of the person of the person or person of the p	Form 2C Section V Parts A,B,C Full Scan
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EPA Form 3510-2C (Rev. 2-85)



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Koppers Industries, Inc. - Pittsburgh, PA 15219-1800

Spec Vendor No. Div	Qur Audit No	Mo. Date	Invoice Amt	Discount	Net Amt. Payable ( Cr.)
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KOPPERS INDUSTRIES, INC. PITTSBURGH, PA. 15219-1800

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CHECK NO. 3082179

PAY

EIGHT HUNDRED AND DO/100 ONLY

TO THE ORDER OF OREGON ST DEPT ENVIRON QUALITY ATTN: BUSINESS OFFICE 811 S W SIXTH AVE

DATE

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AY THIS AMOUNT

Payable through Mellon Bank (DE) N.A., Wilmington, DE 198

#30B2179# #031100047#

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AUTHORIZED SIGNATURE

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. <u>SEE INSTRUCTIONS</u>.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

ORDO27734359

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 001

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

				. EFFLUENT				3. UN		4. IN	TAKE (optiona	1)
1. POLLUTANT	a. MAXIMUM	DAILY VALUE	b. MAXIMUM 3	ODAY VALUE	c.LONG TERM	AVRG. VALUE	d. NO. OF	(specify if	olank)	a. LONG AVERAG	TERM E VALUE	b. NO. OF
	(I)	(z) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES	a CONCEN- TRATION	b. MASS	CONCENTRATION	(2) MASS	ANALYSES
a. Blochemical Oxygen Demand (BOD)	28						1	mg/l	1bs			
b. Chemical Oxygen Demand (COD)	50 ´				·		1	mg/l	lbs			
c. Total Organic Carbon (TOC)	19						1	mg/l	lbs	·		
d. Total Suspended Solids (TSS)	13						1	mg/l	1bs			
e. Ammonia (as N)	0.3						1	mg/l	1bs			
f. Flow	VALUE		VALUE		VALUE					VALUE		
10.000	6000		6000		4000		22	N/A	gal			}
g. Temperature	VALUE		VALUE		VALUE			°C		VALUE		
(winter)	12		12		10		3		•			}
h. Temperature	VALUE		VALUE		VALUE				<del></del>	VALUE		
(summer)	26		25		20 .		3	°C				
i, pH	6.0	7.0	6.0	6.6			23	STANDAR	DUNITS			

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUT-	2, MAI	RK 'X'	es (SA)			EFFLUENT				4. UI	NITS	5. INT	AKE (optiona	1)
ANT AND CAS NO.	8. BE- LIEVEC PRE- SENT	b. se-	8. MAXIMUM I	DAILY VALUE	b. MAXIMUM 3	lable)	c.LONG TERM	AVRG. VALUE	d NO. OF	Ia, CONCEN-I	- MAGG	a, LONG	TERM E VALUE	b. NO. OF
(if available)	PRE- SENT	SENT	CONCENTRATION	·晨〔(2) MASS	(1) CONCENTRATION	(2) MASB	CONCENTRATION	(2) MASS	ANAL- YSES	PATION	b. MASS	CONCENTRATION	(2) MASS	YSES
a. Bromide (24959-67-9)		Х	<0.5	ND					1	mg/l	1bs			
b. Chlorine, Total Residual		х	<0.5	. ND					1	mg/l	1bs			
c. Color	Х		300	N/A					1	Pt-Co	N/A	·		
d. Fecal Coliform	Х		114	N/A	·				1	Colonies 100 ml	N/A			
e. Fluoride (16984-48-8)	х		0.2	0.01					1	mg/l	lbs_			
f. Nitrate- Nitrite (as N)	Х		<0.3	ND				-	1	mg/l	lbs_			

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PAGE V-1

**CONTINUE ON REVERSE** 

				وأفانهم والمداوق والمحيدين بخوروا	a market elements 3.	EFFLUENT /	s # je s submitspalje a ser make njem nje	graph of the state	برصوبه أدعو ومت	4, UI	NITS	Mostrice 5. INT	AKE (optional	)
	8. UE- LIEVED PRE- SENT	b.ez-	8. MAXIMUM I	DAILY VALUE	b. MAXIMUM 3	O DAY VALUE	c,LONG TERM	AVRG. VALUE	d. NO.OF	a, CONCEN-		A VERAG		b. NO. OF
(if available)	PRE-	SENT	CONCENTRATION	/ (2) MASS	CONCENTRATION	(z) MASS	CONCENTRATION	(2) MASS	YSES	TRATION	b. MASS	CONCENTRATION	(2) MASS	ANAL. YSES
g. Nitrogen, Total Organic (as N)	Х		0.8	0.04					1	mg/l	lbs		<del>- 10 20 11</del> 11 11 - 2	
h. Oll and Grease	х		1.7	0.08	1.7	0.08	0.85	0.03	23	mg/l	lbs			
i. Phosphorus (as P), Total (7723-14-0)	х		0.2	0.01					1.	mg/l	1bs			
j. Radioactivity		+ 3.1	一大 等 原理學		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T		केपूर जनक स	is Ma	Maria B	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	galeti i Harania		
(1) Alpha, Total		Х	N/A	N/A					0	N/A	N/A			
(2) Beta, Total		Х	N/A	N/A	·			·	0	N/A	N/A			
(3) Radium. Total	·	X	N/A	N/A					0	N/A	N/A			:
(4) Radium 226, Total		Х	N/A	N/A.					0	N/A	N/A		· .	
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)	х		8.8	0.44	\			·	1	mg/l	lbs			
i, Sulfide (as 3)	Х		0.03	0.0015					1	mg/l	1bs			
m. Sulfite (as SO3) (14265-45-3)	х		<5.0	. ND					1	mg/l	1bs			
n, Surfactants	х		0.72	0.036					1	mg/l	1bs			
o. Aluminum, Total (7429-90-5)	х		<0.1	ND					1	mg/l	1bs			
p. Barlum, Total (7440-39-3)	х	,	0.017	<0.001					1 .	mg/l	1bs			
q. Boron, Total (7440-42-8)	х		0.1	0.005	,				1	mg/l	.1bs			
r, Cobalt, Total (7440-48-4)	х		<0.05	ND					1	mg/l	lbs			
s. Iron, Total (7439-89-6)	х		5.8	0.29					1	mg/l	1bs			,
t. Magnesium, Total (7439-95-4)	х		0.9	0.045					1	mg/l	1bs			
u. Molybdenum, Total (7439-98-7)	х		0.05	ND					1	mg/l	1bs		-	
v. Manganese, Total (7439-96-5)	х		<b>5.</b> 5	0.275				19	1	mg/l	lbs			
w. Tin, Total (7440-31-5)	х		0.1	ND			The same of the control of the price of the control	e. In Edd Selected presidenteller	1.	mg/l	lbs			
x. Titanium, Total (7440-32-6)	Х		0.05	ND					1	mg/1	1bs			

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PAGE'V-2

CONTINUE ON PAGE V - 3

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Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

ONTINUED FROM PAGE 3 OF FORM 2-C

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PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a fsecondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

. POLLUTANT	2.	MARK	.x.			3, E	FFLUENT			ļ.	4. UI	NITS .			
AND CAS NUMBER	TEST.	b. eg-	C BE-	8. MAXIMUM D	AILY VALUE	b. MAXIMUM 3	DAY VALUE	c.LONG TERM	AVRG. VALUE	d NO.OF	a. CONCENTRATION	b MASS	a, LONG	G TERM E VALUE	b. NO. OF
(if available)	GOIN-	PRE-	SENT	8. MAXIMUM D	(2) MASS	CONCENTRATION	(2) MASS	(I)	(2) MASE	ANAL-	TRATION	D. MASS	(I) CONCEN-	(2) MASS	YSES
IETALS, CYANID	, ANI	TOT	L PHE	NOLS :						\$. <sup>7</sup>	144		:		
M. Antimony, otal (7440-36-0)	X			<0.1	ND	,				1	mg/l	lbs			
M. Arsenic, Total 7440-38-2)	Х			<0.1	ND					1	mg/l	lbs			
M. Beryllium, otel, 7440-41-7)	Х			<0.005	ND					1	mg/l	lbs			
M. Cadmium, otal (7440-43-9)	Х			<0.05	ND					1	mg/l	1hs			
M. Chromium, otal (7440-47-3)	Х			<0.05	ND					1	mg/1	1bs			
iM. Copper, Total 7440-50-8)	Х			<0.05	ND	-				1	mg/l	1bs			
7M. Lead, Total 7439-92-1)	Х			<0.1	ND					1	mg/l	lbs			
IM. Mercury, Total 7439-97-6)	Х			<0.0005	ND					1	mg/l	lbs			
M. Nickel, Total 7440-02-0)	Х			<0.05	ND					1	mg/l	1bs			
OM. Selenium, Total (7782-49-2)	Х			<0.1	ND					1	mg/l	1bs			
1M. Sliver, Total 7440-22-4)	Х	-		<0.05	ND					11.	mg/l	lbs			
2M. Thallium, Fotal (7440-28-0)	Х			<0.1	ND					1	mg/l	lbs			
3M. Zinc, Total 7440-66-6)	Х			<0.05	ND <sub>.</sub>					1	mg/l	1bs			
14M. Cyanide, Fotal (57-12-5)	Х			0.02	0.001					1	mg/l	1bs			
15M. Phenois, Total	Х			0.25	0.013	0.25	0.013	0.156	0.005	23	mg/l	lbs			
DIOXIN															
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6)			Х	DESCRIBE RES	ULTS										

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	CONT	INUED	FROM THE	FRONT
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1. POLLUTANT	2. 1	MARK	'X'				FFLUENT				4. UI	NITS		AKE (optio	mal)
AND CAS NUMBER	ATEST	D. BE-	C BE-	a, MAXIMUM E	AILY VALUE		DAY VALUE	c.LONG TERM	AVRG. VALUE	d, NO. OF	a. CONCEN	b. MASS	8. LONG	TERM	b. NO. OF
					(2) MASS	CONCENTRATION	(2) MASS	(I)	(2) MASS	YSES	TRATION	U. MASS.	(I) CONCEN-	(2) MASS	ANAL- YSES
GC/MS FRACTION	- VOI	ATILE	E COM	POUNDS		·									
1V. Acrolein (107-02-8)	х			< 200	ND					1	ug/l	lbs			
2V. Acrylonitrile (107-13-1)	х			< 200	ND					1	ug/l	1bs			
3V. Benzene (71-43-2)	х			< <sub>2</sub>	ND					1	ug/l	1bs			
4V. Bis (Chloro- methyl) Ether (542-88-1)	х			< 0.5	ND					1	ug/l	1bs			
5V, Bromoform (75-25-2)	х			< <sub>1</sub>	ND		· .			- 1	ug/1	. 1bs			
6V. Carbon Tetrachiorida (56-23-5)	х			< 0.5	ND					1	ug/1	1bs			
7V. Chlorobenzene (108-90-7)	х			< 0.5	ND					1	ug/l	lbs			
8V, Chlorodi- bromomethane (124-48-1)	x			< 0.5	ND	\				1	ug/l	lbs			
9V. Chloroethane (75-00-3)	х			< 10	ND	ì				1	ug/l	lbs			
10V, 2-Chloro- ethylvinyl Ether (110-75-8)	х			< 50	ND					1	ug/l	1bs			
11V. Chloroform (67-66-3)	х			< 0.5	ND				·	. 1	ug/l	lbs			
12V. Dichloro- bromomethene (75-27-4)	х			< 0.5	ND					1	ug/l	lbs			
13V. Dichloro- difluoromethane (75-71-8)	х			< 5	ND					1	ug/l	1bs			
14V. 1,1-Dichloro- ethane (75-34-3)	X			< 0.5	ND					1	ug/1	1bs		,	
15V, 1,2-Dichloro- ethane (107-06-2)	Х			< 1	ND					1	ug/l	1bs			
16V. 1,1-Dichloro- ethylene (75-35-4)	Х			< 0.5	ND					1	ug/l	1bs			
17V. 1,2 <sup>2</sup> Dichloro- propane (78-87-5)	Х			< 1	ND					1	ug/l	1bs			
18V. 1,3-Dichloro- propylene (542-75-6)	Х			< 0.5	ND	χ		, , , , , , , , , , , , , , , , , , ,		1	ug/l	1bs			
19V. Ethylbenzene (100-41-4)	х			< 1	ND					1	ug/1	1bs			
20V, Methyl Bromide (74-83-9)	Х			< 10	ND					1	ug/l	1bs			
21V. Methyl Chloride (74-87-3)	Х			< 10	ND					1	ug/1	1bs			

Form Approved

OMB No. 2040-0086

Approval expires 7-31-88

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

	79-34-5)
	4V. Tetrach thylene (127
	!5V. Toluene 108-88-3)
	26V. 1,2-Tran Dichloroethy 156-60-5)
	17V. 1,1,1-Tr hloroethane 71-55-6) 18V. 1,1,2-Tr hloroethane
	79-00-5)
	30V. Trichlor luoromethan 75-69-4)
	31V. Vinyi Chloride (75-
	C/MS FRAC
	A. 2-Chloro 95-57-8)
	A. 2,4-Dichi henoi (120-8
	IA. 2,4-Dime henol (105-
	A. 4,6-Dinit cresol (534-5
	A. 2,4-Dinit henol (51-28
	A. 2-Nitropi 88-75-5)
₹	A. 4-Nitropi 100-02-7)
oppei	A. P-Chloro cresol (59-50
rs00(	A, Pentachio henoi (87-8)
3462	0A. Phenoi 108-95-2)
	1A 246.TI

ONTINUED FROM	PAGE	₹ V-4				0027734359		001	Approval expires 7-31-88							
1. POLLUTANT	2.	MARK'		- ·		3. EFFLUENT					4. UN	JNITS . 5. INTAKE (optional)			onal)	
AND CAS NUMBER	a rest	TEST D. BE- C. BE- ING LIEVEDLIEVED RE- PRE- AB- OUIR- SENT SENT		a. MAXIMUM	DAILY VALUE	LUE D. MAXIMUM 30 DAY VALUE C.LONG			TERM AVRG. VALUE	d NO.0F	a. CONCEN·	L	a. LONG	TERM E VALUE	b, NO.OF	
(if available)	RE- QUIR-	SENT	ANT	CONCENTRATION	(2) MASS	(I)	(2) MASS	CONCENTRATION	(2) MASS	ANAL- YSES	a, CONCEN- TRATION	b. MASS	(I) CONCEN-	(2) MASS	ANAL-	
3C/MS FRACTION	– vo	LATILE	СОМ	POUNDS (cont	inued)											
22V, Methylene Chloride (75-09-2)	X			<2	ND					1 -	ug/l	1bs	1			
23V, 1,1,2,2-Tetra- hioroethane 79-34-5)	Х			<0.5	ND					1	ug/l	1bs				
4V. Tetrachloro- thylene (127-18-4)	х			<0.5	ND					1	ug/l	1bs				
25V, Toluene 108-88-3)	Х			1	<0.0001					. 1	ug/l	lbs				
26V. 1,2-Trans- Dichloroethylene 156-60-5)	Х			<0.5	ND	\				1	ug/l	lbs				
17V. 1,1,1-Tri- :hloroethane 71-55-6)	Х			<0.5	ND	\ :				1	ug/l	1bs				
8V. 1,1,2-Tri- hioroethane 79-00-5)	X			<0.5	ND					1	ug/l	lbs				
!9V. Trichloro- thylene (79-01-6)	Х			<0.5	. ND					1	ug/l	lbs				
30V. Trichloro- luoromethane 75-69-4)	Х			<1	ND					1	ug/l	1bs				
31V. Vinýl :hloride (75-01-4)	Х			<10	ND			·		1	ug/l	1bs				
C/MS FRACTION	- ACI	D COM	POUN	DS												
A. 2-Chlorophenol 95-57-8)	Х			< 1	ND					1	ug/l	lbs				
A. 2,4-Dichloro- henol (120-83-2)	Х			< 1	ND					1	ug/l	lbs				
IA. 2,4-Dimethyl- henol (105-67-9)	Х			< 2	. ND					1	ug/l	1bs				
A. 4,6-Dinitro-O- cresol (534-52-1)	Х			< 5	ND					1	ug/l	lbs				
A. 2,4-Dinitro- henol (51-28-5)	Х			<50	ND			10.00		1	ug/l	1bs				
A. 2-Nitrophenol 88-75-5)	Х			<10	ND					1	ug/1	lbs				
A. 4-Nitrophenol 100-02-7)	Х			<100	. ND					1	ug/l	lbs				
A. P-Chloro-M- cresol (59-50-7)	Х			< 2	ND				·	1	ug/l	1bs				
A, Pentachloro- henol (87-86-5)	Х			< 5	. ND					1	ug/l	1bs				
0A. Phenol 108-95-2)	X			<5	. ND					1	ug/l	1bs				
1A. 2,4,6-Tri- hiorophenol 88-06-2)	Х			< 2	ND					1	ug/l	1bs				

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CONT	MILED	FROM	THE	FRONT

1. POLLUTANT	2.	MARK	'X'	`			FFLUENT				4. UI	VITS		TAKE (optic	onal)
AND CAS NUMBER	ATEST.	D. BE- LIEVED PRE- SENY	C DE.	a, MAXIMUM D	AILY VALUE		DAY VALUE	C.LONG TERM	AVRG. VALUE	4 NO.OF	8. CONCEN-	b, MASS	B. LONG	TERM	b. NO. OF
					(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	YSES	TRATION	U, M A55	(I) CONCEN-	(2) MASS	YSES
GC/MS FRACTION	- BA	SE/NEL	JTRAI	LCOMPOUNDS											
1B. Acenaphthene (83-32-9)	Х			< 1	ND					1	ug/l	lbs			
28. Acenaphtylene (208-96-8)	Х			< 1	ND		· · · · · · · · · · · · · · · · · · ·			1	ug/l	1bs			
38. Anthracene (120-12-7)	Х		! 	_ 1	<0.0001				~	1	ug/l	1bs			
4B. Benzidine (92-87-5)	Х		·	< 200	. ND					1	ug/l	1bs			
5B. Benzo <i>(a)</i> Anthracene (56-55-3)	Х			< 3	ND					1	ug/l	1bs			
6B. Benzo (a) Pyrene (50-32-8)	Х			< 5	ND					1	ug/l	1bs			
78. 3,4-Benzo- fluoranthene (205-99-2)	Х			< 5	ND					1	ug/l	1bs			
8B. Benzo <i>(ghi)</i> Perylene (191-24-2)	X			< 5	ND					1	ug/1	lbs			
9B. Benzo (k) Fluoranthene (207-08-9)	Х			< 5	ND		·			1	ug/l	lbs			
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)	Х			< 1	ND		·			11	ug/l	lbs			
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)	Х			< 1	ND					1	ug/l	lbs			
12B. Bis (2-Chloroiso- propyl) Ether (102-60-1)	X			< 1	ND		·			1	ug/l	lbs			
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)	Х			< 2	ND		·			1	ug/l	lbs			
14B, 4-Bromo- phenyl Phenyl Ether (101-55-3)	Х			< 2	ND					1	ug/1	lbs			
15B. Butyl Benzyl Phthalate (85-68-7)	X			< 5	ND					1	ug/l	1bs			
168. 2-Chloro- naphthalene (91-58-7)	X		 	< 1	ND					1	ug/l	1bs			
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)	Х		ļ	< 1	ND					1	ug/l	1bs			
18B. Chrysene (218-01-9)	X			< 3	ND		·			1	ug/1	1bs			<u> </u>
19B. Dibenzo (a,h) Anthracene (53-70-3)	<sup>EE</sup> X			· < 5	ND					1	ug/1	lbs			
208. 1,2-Dichloro- benzene (95-50-1)	X			< 1	ND					1	ug/1	lbs			,
21B. 1,3-Dichloro- benzene (541-73-1	х			< 1	ND					1	ug/1	lbs			

(2) MASS

b. MAXIMUM 30 DAY VALUE CLONG TERM AVRG. VALUE d. NO. OF

(I)

3. EFFLUENT

Form Approved OMB No. 2040-0086 Approval expires 7-31-88

5 INTAKE (optional)

(2) MASS

b. NO.OF

ANAL-

A. LONG TERM AVERAGE VALUE

(I) CONCEN-

4. UNITS

1bs

a. CONCEN-

ug/1

ANAL-VSES

1

1

ug/l

1bs

(2) MASS

ORDO27734359

	benzidine (91-94-1)	l x			<	50	ИD					1	ug/l	1bs		
	24B. Diethyl Phthalate (84-66-2)	Х			<	5	ИD			·		1	ug/l	lbs		
	25B. Dimethyl Phthalate (131-11-3)	X			<	1	ND					1	ug/l	lbs		
	26B, Di-N-Butyl Phthelate (84-74-2)	Х			≮	1	ND			·		1	ug/l	lbs		
	27B. 2,4-Dinitro- toluene (121-14-2)	Х			<	5	ND					1	ug/l	lbs		
	28B. 2,6-Dinitro- toluene (606-20-2)	Х			 <	5	ND	and the second		m market grade	to the state of the second treestable to	1	ug/l	1bs		
	29B. Di-N-Octyl Phthalate (117-84-0)	У			<	2	ND					1	ug/l	lbs		
	10B. 1,2-Diphenyl- nydrazine (as Azo- nenzene) (122-66-7				< .	5	ND	·				1	ug/l	lbs ·		
	31B. Fluoranthene (206-44-0)	X				6	<0.0003					1	ug/l	1bs		
	32B. Fluorene (86-73-7)	Х			<	1	ND					1	ug/l	lbs		
	138. Hexachlorobenzene 118-74-1	X			<_	1	ND					1	ug/l	1bs		
	34B. Hexa- chlorobutadiene (87-68-3)	χ			<	2	ND					, 1	ug/l	lbs		
	35B. Hexachloro- cyclopentadiene (77-47-4)	}			<	5	ND					1	ug/l	1bs		
	36B. Hexachloro- ethane (67-72-1)	}	(		<	3	ND					1	ug/l	lbs		
	37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	}			<	5	ND					1	ug/l	1bs		
7	38B. Isophorone (78-59-1)	}			<	2	ND					1	ug/l	lbs		
5	39B, Naphthalene (91-20-3)	}	κ		<	1	. ND					1	ug/l	1bs		
, ,	40B. Nitrobenzene (98-95-3)	2	ζ		<	2	ND		·	·		1	ug/l	lbs		
3/6	41B. N-Nitro- sodimethylamine (62-75-9)	2	ζ		<	50	ND					1	ug/l	1bs		
_					 		1		1	1	1	1			1	

42B. N-Nitrosodi-N-Propylamine

CONTINUED FROM PAGE V-6

2. MARK 'X'

ATEST D. SE- C. SE-ING LIEVEDLIEVED RE- PRE- AB-QUIR- SENT SENT

C/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)

8. MAXIMUM DAILY VALUE

(z) MASS

ND

CONCENTRATION

× 1

< 5

ND

POLLUTANT AND CAS NUMBER

(if quailable)

22B. 1,4-Dichloro-benzene (106-46-7)

23B. 3,3'-Dichloro-

والمراج والمناف والمعارضين والمعارض وال

CONTINUED FROM  1. POLLUTANT		MARK	_			3,	4. UI	VITS	5. INTAKE (optional)						
AND CAS NUMBER	<u> </u>			a. MAXIMUM I	DAILY VALUE	b. MAXIMUM 3	ODAY VALUE	c.LONG TERM	AVRG. VALUE	d NO.OF	a CONCER	[	A LONG		b. NO. O
(if available)	RE-	SENT SENT	PENT.	a. MAXIMUM E	(z) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANAL. YSES	TRATION	b MASS	(I) CONCEN-	(2) MASS	YSES
GC/MS FRACTION						GONTENTION	<del></del>	CONTENTATION					1827108		<del> </del>
43B. N-Nitro- sodiphenylamine (86-30-6)	Х			< 5	ND					1	ug/l	lbs			
44B. Phenanthrene (85-01-8)	Х			< 1	ND					·1	ug/1	1bs			
45B. Pyrene (129-00-0)	Х			. 1	< 0.0005					1	ug/l	1bs			
46B. 1,2,4 - Tri- chlorobenzene : : : (120-82-1)	Х			< 1	ND					1	ug/1	1bs			
GC/MS FRACTION	- PES	TICID	ES · ·	man magazine e	1. 7. 1	·	,					ملوم ويواد	F		
1P, Aldrin (309-00-2)	Х			<b>&lt;</b> 3	ND			•		1	ug/1	lbs			
2P. <i>0</i> -BHC (319-84-6)	х			· < 5	ND	\		,		1 -	ug/1	lbs			
3P. β-BHC (319-85-7)	х			< 5	ND					1	ug/l	1bs			
4P. γ-BHC (58-89-9)	х			<b>4</b> 5	ND					1	ug/l	1bs			
5P. δ-BHC (319-86-8)	х			· < 5	ND					1	ug/l	lbs			
6P, Chlordane (57-74-9)	х			< 50	ND					1	ug/1	lbs			
7P. 4,4'-DDT (50-29-3)	х			< 5	ND					1	ug/l	lbs			
8P. 4,4'-DDE (72-55-9)	х			 < 5	ND					1	ug/l	lbs			
9P. 4,4'-DDD } (72-54-8)	х			< 5	. ND					1	ug/l	lbs			
10P, Dieldrin (60-57-1)	Х			< 5	ND					1	ug/l	lbs 🕾			
11P. α-Endosulfan (115-29-7)	Х	1		< 20	ND					1	ug/l	1bs			
12P. β-Endosulfan (115-29-7)	Х			< 20	ND					1	ug/l	1bs			
13P. Endosulfan Sulfate (1031-07-8)	Х			< 20	ND					1	ug/l	1bs			
14P, Endrin (72-20-8)	Х			<b>&lt;</b> 100	ND			eres era som era era era era era era era era era era	The second section of the section of the second section of the section of the second section of the secti	to a continuous to the contest of	ug/l	1bs			
16P. Endrin Aldehyde (7421-93-4)	Х			< 100	ND					1	ug/l	lbs			. 9
16P. Heptachlor (76-44-8)	х			< 2	ND		•			1	ug/l	1bs			

CONTINUED FROM	VI PAGI	E V-8				ORD0277343	59	00	1	Approval expires 7-31-6				38	
1. POLLUTANT	2.	MARK	'x'			3. EFFLUENT						IITS	5. IN	AKE (option	onal)
AND CAS NUMBER	ATEST.	b. 0 E.	C BE- LIEVED AB- SENT	a. MAXIMUM	DAILY VALU	E b. MAXIMUM 3	b. MAXIMUM 30 DAY VALUE		c.LONG TERM AVRG. VALUE		I a. CONCEN-	b. MASS	A LONG	TERM EVALUE	b. N
(if available)	GUIN.	SENT	SENT	(1)	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(4) MASS	ANAL. YSES	TRATION	U, MASS	(1) CONCEN-	NCEN- (-)	
GC/MS FRACTION	I - PES	TICID	ES (cor	rtinued)											
17P. Heptachlor Epoxide (1024-57-3)	Х			<5	ND					1	ug/l	1bs			
18P. PCB-1242 (53469-21-9)	х			<100	ND					1	ug/l	1bs			
19P. PCB-1254 (11097-69-1)	Х			<100	ND					1	ug/l	1bs			
20P. PCB-1221 (11104-28-2)	Х			<100	ND	ang ay 1865 yang sa anana makan sa pangs	See See See See See			1	ug/l	1bs			
21P. PCB-1232 (11141-16-5)	х			<100	ND					1	ug/l	1bs			
22P. PCB-1248 (12672-29-6)	Х			<100	ND					1	ug/l	lbs			
23P. PCB-1260 (11096-82-5)	х			<100	ND					1	ug/l	lbs			
24P. PCB-1016 (12674-11-2)	Х			<100	ND			·		1	ug/l	1bs			
25P. Toxaphene (8001-35-2)	х			<100	ND					1	ug/l	1bs			

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## Analytical Data

Koppers Industry

Job Number: 961203V

Page Number: 3 of 4

Lab Sample ID: 961203V-1

Field ID: Wastewater Tanks 1,3 & 5

Date/Time: 12/03/96 0800 Matrix: Waste Water

EPA Category: Extractable Organics

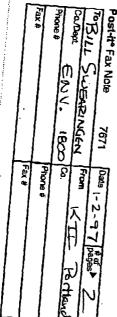
Analysis Performed: EPA 8310; Polynuclear Aromatic Hydrocarbons by HPLC.

16:10

Analysis Date: 12/23/96

Analyst: VB

	Detection	Laboratory	Analytical
Parameter	Limit	Blank	Resuit
Acenaphthene	10.	ND	ND
Acenaphthylene	10.	ND	ND
Anthracene	1.	ND	ND
Benzo(a)anthracene	0.1	ND	4.0
Benzo(a)pyrene	0.4	ND	11.
Benzo(b)fluoranthene	0.1	ND	19.
Benzo(g,h,i)perylene	0.4	ND	6.4
Benzo(k)fluorenthene	0.1	ND	15.
Chrysene	1.	ND	7.
Dibenzo(a,h)anthracene	0.4	ND	1.7
Fluoranthene	1,	ND	15.
Fluorene	5.	ND	ND
Indeno(1,2,3-cd)pyrene	0. <i>5</i>	ND	7.3
Naphthalene	5,	ND	ND
Phenanthrene	1.	ND	ND
Pyrene	1.	ND	15.
<b>*</b>			73



Results expressed as mg/l unless otherwise noted.

ND means none detected at or above the detection limit listed.

RECEIVED

JAN - 2 1997

KOPPERS INDS., INC. PORTLAND, OR

Coffey Laboratories, Inc.





Amos S. Kamerer Plant Manager Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-288-3881 Fax: 503-285-2831

February 24, 1997

Mr. Neil J. Mullane, Manager Water Quality Source Control D.E.Q. 2020 SW Fourth Ave., Suite 400 Portland, Oregon 97201-4987

Reference:

Facility No. 47430

WQ-NWR-97-002

Notice of Noncompliance

Dear Mr. Mullane,

This is to acknowledge your January 22, 1997 Notice of Noncompliance.

I simply wanted to confirm our inadvertent error and to assure you that we have taken measures to make sure that this does not happen again.

Sincerely

mos S. Kamerer

cc: Elliot Zais, DEQ

W. E. Swearingen, KII

fil NPDES

22 January 1997

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Re:

Oregon

DEPARTMENT OF

ENVIRONMENTAL

AMOS S KAMERER
PLANT MANAGER
KOPPERS INDUSTRIES INC
7540 NW ST HELENS RD
PORTLAND OR 97210

RECEIVED

Jan 27 1997

KOPHERS INDS., INC. PORTLAND, OR

NORTHWEST REGION

QUALITY

WQ-Multnomah County

Koppers Industries, Inc.. Facility No. 47430 WQ-NWR-97-002

NOTICE OF NONCOMPLIANCE

Dear Mr. Kamerer:

A review of your facility's discharge monitoring report for November 1996 shows that the following exceedences occurred at the above facility in November 1996:

Maximum phenol concentration in effluent 0.86 mg/L (allowable is 0.7 mg/L) Average phenol concentration in effluent 0.52 mg/L (allowable is 0.5 mg/L)

The above exceedence is a Class II violation of your NPDES permit. Oregon Administrative Rule 340-12-041(2)(c) provides that a permittee shall not receive more than three NONs for Class II violations of the same permit within a thirty-six (36) month period without being issued a more formal enforcement action called a Notice of Permit Violation (NPV). The Department may, however, issue an NPV prior to the third NON. The Department requests your cooperation in ensuring that this violation does not recur.

If the Department can be of any help in preventing further violations, please call Elliot Zais at 229-5292.

Sincerely,

Neil J. Mullare, Manager

Water Quality Source Control

EJZ

cc: WQ

Enforcement

Post-It brand fax transmittal memo 7871 # of pages > /

To B. Swappingen From Afmas

Ex. K-1800 Pors-land

CALL And I 11 Staland

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John A. Kitzhaher Governor



2020 SW Fourth Avenue Suite 400 Portland, OR 97201-4987 (503) 229-5263 Voice TTY (503) 229-5471 DBQ-1

cc: J. Holtrop-city of Portland,

NATIONAL POLLUTART DISCHARGE ELIMINATION SYSTEM / NPI) ES I

(2-16)

101003

DISCHARGE MONITORING REPORT ( DMR)

MI

W.E. Swearingen-KII

3077-J

Form Approved.

PERMITTEE NAME/ADDRESS (Include

ADDRESS 7540 NW ST. HELENS RD.

KOPPERS INDUSTRIES, INC.

Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM! NPDES!

Koppers003473

EPA Form 3320-1 (Rev. 9-88) Previous editions may be used.

PERMITTEE NAME/ADDRESS (Include

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

PAGE 1 OF 1

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PERMITTEE NAME/ADDRESS (Include

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(17-19)

001

Form Approved.

3077-J

(2-16)

101003

PERMITTEE NAME/ADDRESS (lockede

Facility Name/Location if different

ADDRESS 17 7540 NW St. Belens Rd.

PERMITTEE NAME/ADDRESS (lociude Facility Name/Location il different) NAME KOPPERS INDUSTRIES

PORTLAND, OR

NORTHWEST PLANT

MULTNOMAH COUNTY

7540 NW ST. HELENS RD.

97210

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LOCATION

ATIONAL POLLUTANT DISCHARGE DISCHARGE MONITOR	NG REPORT (DMR)
(2-16)	(17-19)
101003	001
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved. OMB No. 2040-0004 Approval expires 10-31-94

3077-J YEAR MO DAY YEAR MO DAY 47430

NOTE: Post instructions before completion this form

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The Second Quarter PAB results per attached.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



#### **Analytical Data**

Koppers Industry

Job Number: 960425B

Page Number: 4 of 4

Lab Sample ID: 960425B-2

Field ID: WW 2,4,6

Date/Time: 04/25/96 0730

Matrix: Waste Water

EPA Category: Extractable Organics

Analysis Performed: EPA 8310; Polynuclear Aromatic Hydrocarbons by HPLC.

Analysis Date: 04/25/96 Analyst: DJM

	Detection	Laboratory	Analytic
Parameter	Limit	Blank	Result
Acenaphthene	25.	ND	ND
Acenaphthylene	25.	ND	ND
Anthracene	5.	ND	ND
Benzo(a)anthraconc	0.5	ND	19.
Benzo(a)pyrene	1.	ND	21.
Benzo(b)fluoranthene	0.5	ND	23.
Benzo(g,h,i)perylene	1.	ND	16.
Benzo(k)fluorantheno	0.5	ND	17.
Chrysene	5.	ND	20.
Dibenzo(a,h)anthracene	2.5	ND	4.
Fluoranthene	5.	ND	18.
Fluorene	25.	ND	ND
Indono(1,2,3-cd)pyrene	2.5	ND	13.
Naphthalenc	25.	ND	ND
Phenauthrene	5.	ND	7.
Pyrene	5.	ND	29.

Results expressed as  $\mu g/l$  unless otherwise noted.

ND means none detected at or above the detection limit listed.

# RECEIVED

MAY 11 1996

KOPPERSINUS, INC. PORTLAND, OR

Coffey Laboratories, Inc.

12423 N.E. Whitaker Way ● Portland, OR ● 97230 ● (503) 254-1794 ● FAX (503) 254-1452

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PERMITTEE NAME/ADDRESS (Include NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES Facility Name (Location if different)
NAME KOPPERS INDUSTRIES DISCHARGE MONITORING REPORT (DMR) (17-19) (2-16) ADDRESS 7540 NW ST. HELENS RD. ন্য Form Approved. 101003 PORTLAND, OR 97210 OMB No. 2040-0004 PERMIT NI IMBER THE CHARGE SHEET B Approval expires 10-S1-94 MONITORING PERIOD 3077-J NORTHWEST PLANT DEO 47430 FACELTTY YEAR MO DAY YEAR MO DAY LOCATION MULTNOMAH COUNTY TO. 36 03 31 01 NOTE: Read Instructions before completing this form. (20-21) (22-23) (24-25) (26-27) (28-29) (20-31) DUALITY OR CONCENTRATION 3 Card Only) QUANTITY OR LOADING (4 Card Only) FREDLENCY OF ANALYSIS SAMPLE TYPE NO. PARAMETER (54-61) (38-45) (46-53) (54-61) (46-53) (32-37) AVERAGE MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS (62-63) (69-70) (64-68) SAMPLE MEASUREMENT EST 12/31 14.194 GPD FLOW SAMPLE MEASUREMENT 51 53 54 o<sub>P</sub> 12/31 PORTLAND TEMPERATURE SAMPLE ME A SUREMENT 6.5 6.5 6:6 12/31 CRAR SU PH KOPPERS MEASUREMENT MG/L 12/31 2.0 5.0 0 OIL & GREASE SAMPLE MEASUREMENT .09 .13 MG/L 12/31 PHENOLS SAMPI P MEASUREMENT % 34/01 **MEASUREMENT** NAME/TITLE PRINCIPAL EXECUTIVE OFFICER I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED TELEPHONE DATE I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMPLED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INCLUSIV OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR CETABRING THE INFORMATION, I BELIEVE THE SUBMITTED BEFORMATION IN THE RESPONSIBLE FOR STRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. I 1010 AND 39 U.S.C. I 1319. (PARABLES BUTCH 1800 EXPRISE MADY INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. I 1010 AND 59 U.S.C. I 1319. (PARABLES BUTCH 1800 EXPRISE MADY INCLUDING THE OF THE PARABOLISM STRUCK INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. I 1001 AND 50 U.S.C. I 1319. (PARABLES BUTCH 1800 EXPRISE MADY INCLUDING THE OF THE PARABOLISM STRUCK INCLUDING THE P S. KAMERER, PLANT MER. R.D. COLLINS, V.P. 503 286-3681 NATURE OF PRINCIPAL EXECUTIVE 96 04 01 OFFICER OR AUTHORIZED AGENT TYPED OR PRINTED NUMBER YEAR MO COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all allachments here)

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Portland, Or	ens Rd.		101	(2-16) 003 IIT NUMBER	Disc	RT (DMR) (17-19)  AARGE NUMBER		form Approve	0-0004	
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Eq	SAMPLE MEASUREMENT PERMIT				6.5	6.5	6.7	SU	0 6	/29 Grab
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### **Analytical Data**

Koppers Industry

Job Number: 960115C

Page Number: 3 of 3

Lab Sample ID: 960115C-1 Field ID: WW 1,3,5 Date/Time: 01/15/96 0800

Matrix: Waste Water

EPA Category: Extractable Organics

Analysis Performed: EPA 8310; Polynuclear Aromatic Hydrocarbons by HPLC.

Analysis Date: 01/15/96 Analyst: DJM

Detection	Laboratory	Analytical
Limit	Blank	Result
6.	ND	21.
6.	ND	ND
6.	ND	ND
0.12	ND	5.4
0.12	ND	8.0
0.06	. ND	2.9
0.36	ND	3.3
0.12	ND	4.1
0.6	ND	2.9
0.36	ND	3.5
0.6	ND	5.2
45.	ND	ND
0.6	ND	3.2
<b>6.</b> ,	ND	ND
6.	ND	ND
2.4	ND	ND
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Results expressed as  $\mu g/l$  unless otherwise noted.

ND means none detected at or above the detection limit listed.

## RECEIVED

JAN 22 1996

KOPPERS INDS., INC. PORTLAND, OP

PERMITTEE NAME/ADDRESS (Include Fecility Name/Location if different)  NAME Koppers Industrie	es, inc.			NATION	DISCHA	ARGE MOI	HARGE ELI NITORIN	NG REPO	RT (DMR) (17-19)	? <b>.</b> S. J						
ADDRESS 7540 NW St Hel					.01003	3			12			m Appro				
Portland, OR 972	<u>:10</u>		. — — — —	_	PERM	IT NUMBER		DISCH	ARGE NUMBER	3077-J 47430		IB No. 20				
PACILITY Northwest Plan	F DEO #47	<b>Z</b> 30		<b>[</b>		MONI	TORING	G PERIO	D	4/430	Ap	proval ex	pires	10-31-94		
LOCATION Multnomah Coun			· <del></del>	-` FROM	YEAR	MO D		YEAR	MO DAY							
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			(3 Card Only) QU	ANTITY OR		<i>(22-23) (24-</i> 1 <b>G</b>	(4 Card 0		28-29) (30-31) QUALITY OR	CONCENTRATION			$\Gamma$	FREQUENC		
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		$\geq$	AVERAGE	MAXIM	UM	UNITS	MINI	IMUM	AVERAGE	MAXIMI	UM	UNITS	(62-63)	(64-68)	<u> </u>	69-70)
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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

4th Quarter PAH test results are attached.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM INPOES!

DISCHARGE MONITORING REPORT (DURI

PERMITTEE NAME/ADDRESS (Include

NATIONAL FOLLUTANT DISCHARGE ELIMINATION SYSTEM INFOES

12-141

PERMIT NUMBER

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(20-21) (22-23) (24-25)

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101003

YEAR

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FROM

QUANTITY OR LOADING

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Cord Only)

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BAMPLE WEASUREMENT

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BAMPLE

(45-53)

AVERAGE

DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD

(4 Card Only)

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ORCHARGE HUMOER

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AVERAGE

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47430

QUALITY OR CONCENTRATION

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Form Approved.

NOTE: Read instructions before completing this form.

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OMB No. 2040-0004

Annewal emires 10-31-94

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KOPPERS

PORTLAND

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Pacifity Hame | Location if different

MAME Koppers Industries, Inc.

Portland, OR 97210

LOCATION Multnomah County

PARAMETER

(32-37)

Temperature

Flow

рH

APPRESS 7540 NW St Belens Road

PACILITY Northwest Plant DEO #47430

PERMITTEE HAME/ADDRESS //adude

Portland, OR			1010 PERM	IT NUMBER	ORING PERIO	08 DIECHARGE NUMBER 3077-J 47430			OMB No. 2040-0004 Approval expires 10-31-94				
MILITY Northwest Plan PCATION Multnomah Co	r DEO #47430		- YEAR	MO DA	YEAR	MO DAY	•						
SEATION PULLEROIDAR CO.	TILEA		— PROM 95	08 0		08 3] 28-24 (34-31)	NOTE: Read instri	actions befo	tions before comple		ton		
			IANTITY OR LOADIN		(f Card Only)	QUALITY OR COM	CENTRATION		T T	FREQUENCY.	BA		
PARAMETER (12-37)		(46-53) AVERAGE	MAXIMUM	UNITS	(38-45) Minimum	(46-S3) AVERAGE	(54-61) MAXIMUM	UNITE	162-63)	ANALYSIS (64-68)	(6		
	SAMPLE MEASUREMENT	3540		200	<u></u>				7.0	7 (21			
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(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

PAGE 1 07 2

cc: W. E. Swearingen



### Analytical Data

Koppers Industry

Job Number: 950804BK Page Number: 2 of 2

Lab Sample ID: 950804BK-1

Field ID: WWT 1-3-5
Date/Time: 08/04/95 1400
Matrix: Waste Water

**BPA Category: Conventional Parameters** 

		Detection	Analytical		Analysis	
Parameter	Method	Limit	Result	Units	Date	Analyst
Oil & Grease	EPA 413.1	3.	ND	mg/L	08/11/95	SSS
Total Phenois	EPA 420.1	0.05	ND	mg/L	08/09/95	PDB

EPA Category: Extractable Organics

		Detection	Analytical		Analysis	
Parameter	Method	Limit	Result	Units	Date	Analyst
Acenaphthene	EPA 8310	25.	ND	μg/L	08/09/95	DJM
Acensphthylene	EPA 8310	25.	ND	μg/L	08/09/95	DIM
Anthracene	EPA 8310	5.	ND	μg/L	08/09/95	DJM
Benzo(a)anthracene	EPA 8310	0.25	ND	μg/L	08/09/95	DJM
Benzo(b)fluoranthene	EPA 8310	0.5	ND	μg/L	08/09/95	DJM
Benzo(k)fluoranthene	EPA 8310	0.25	ND	μg/L	08/09/95	DJM
Benzo(g,h,i)perylene	EPA 8310	0.5	ND	μg/L	08/09/95	DJM
Benzo(a)pyrene	EPA 8310	0.25	ND	μg/L	08/09/93	DJM
Chrysene	BPA 8310	2.5	ND	μg/L	08/09/95	DJM
Dibenzo(a,h)anthracene	EPA 8310	0.5	ND	μg/L	08/09/95	DJM
Fluoranthene	EPA 8310	2.5	ND	μg/L	08/09/95	DJM
Fluorene	EPA 8310	2.5	ND	μg/L	08/09/95	DJM
Indeno(1,2,3-cd)pyrene	EPA 8310	1.25	ND	μg/L	08/09/95	DJM
Naphthalene	<b>EPA 8310</b>	25.	ND	μg/L	08/09/95	DJM
Phenanthrene	EPA 8310	5.	ND	μg/L	08/09/95	DJM
Pyrene	EPA 8310	2.5	ND	μg/L	08/09/95	DJM

ND means none detected at or above the detection limit listed.

MATIONAL POLICITARY DISCHARGE ELIMINATION SYSTEM INFOEST

(2-16)

101003

DISCHARGE MONITORING REPORT (DMR)

(17-19)

Form Approved.

TYPE

(69-70)

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PERMITTEE HAME/ADDRESS (Include

Pacitity Name | Company of Contract | Industry | Industry | INC.

ACCES 7540 NW ST HELENS ROAD

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DAR)

(2-16)

101003

(17-19)

DISCHARGE NUMBER

06

Form Approved.

OMB No. 2040-0004

PAGE

PERMITTEE NAME/ADDRESS /fachido

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ADD RES

Pacificy Clame/Location If different NOVISTRIES, INC.

PORTLAND, OR

7540 NW ST. HELENS ROAD

97210

Feedity Name   Location if different   NAME KOPPERS INDUSTRIE  ADDRESS 7540 NW ST HELE  PORTLAND, OR 9721	S, INC. NS ROAD		DISCH	(2-16)	NITORING	NATION SYSTEM (NPI REPORT (DMR) (17-19) 05 DISCHARGE NUMBER	Fo OM 3077-J Ap	rm Approved MB No. 2040 proval expire	-0004.	0-91.	
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(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMU	M AVERAG	E MAXIMUM	BTINU	(62-63)	(64-68)	(69-70)
FLOW	SAMPLE MEASUREMENT	7,097						*	N/A	2/31	EST.
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(IICMDED AUTIDE)	SAMPLE MEASUREMENT				60	61	62		0	2/31	GRAB
TEMPERATURE	PERMIT REGUIREMENT						9110 · ·	F			
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Но	MEGUINEM ENT:	77.	E green		6.0	10.00	49.00	SU			
;	SAMPLE MEASUREMENT				и.1	2.5	5.0		0	2/31	GRAB
OIL & GREASE	TPERMIT REQUIREMENT		100		N/2	10	¥ 15	mg/L			
	SAMPLE MEASUREMENT				N.C	.03	.05		0	2/31 1	GRAB
PHENOLS	PERMIT REQUIREMENT				N/A	.5#	1007	mg/L			
	SAMPLE MEASUREMENT										
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COMMENT AND EXPLANATION OF A	NY VIOLATIONS (R.	eference all attachmen	is here)	· · · · · · · · · · · · · · · · · · ·			I CO	DE I			
THE SECOND QUARTER PAR	H RESULTS ARI	E ATTACHED.									

MATIONAL POLLUTANT DISCHARGE CLIMINATION SYSTEM (NPDES)

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PERMIT MUMBER

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(20-21) (22-23) (24-25)

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101003

YEAR

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FROM

(54-61)

MAXIMUM

(Card Only) QUANTITY OR LOADING

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AVERAGE

DISCHARGE MONITORING REPORT IDMRI

MONITORING PERIOD

(4 Card Only)

(38-45)

MINIMUM

YEAR

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(17.19)

DISCHARGE NUMBER

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(46-51)

AVERAGE

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QUALITY OR CONCENTRATION

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Form Aggroved.

OMB No. 2040-0004.

NOTE: Read instructions before completing this form.

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**KOPPERS** 

PORTLAND

Approval expires 6-30-91.

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PERMITTEE HAME/ADDRESS (Include

MAME KOPPERS INDUSTRIES

ADDRESS 7540 NW ST HELENS ROAD

PAGILITY NORTHWEST PLANT DEO #47430

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev. 9-68) Previous editions may be used.

PERTLAND, OR 97210

LOCATION MULTNOMAH COUNTY

PARAMETER

(32-37)

Peckley Name/Location if different/

DATE

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DAY



### **Analytical Data**

Koppers Industry

Job Number: 950202U

Page Number: 3 of 3

Lab Sample ID: 950202U-2

Field ID: WWT 2/4 Composite Date/Time: 02/02/95 1200

Matrix: Waste Water

Analysis Performed: Polynuclear Aromatic Hydrocarbons in waste water by EPA Method 8310, HPLC.

	Detection	Analytical
Compound	Limit	Results
Acenaphthene	500	ND
Acenaphthylene	500	ND
Anthracene	100	ND
Benzo(a)anthracene	15	45
Benzo(b)fluoranthene	20	58
Benzo(k)fluoranthene	15	38
Benzo(g,h,i)perylene	15	38
Benzo(a)pyrene	·* ) 15	43
Chrysene	20	22
Dibenzo(a,h)anthracene	15	ND
Fluoranthene	100	ND
Fluorene	200	ND
Indeno(1,2,3-c,d)pyrene	20	25
Naphthalene	500	ND
Phenanthrene	200	ND
Pyrene	200	ND_
		26.9

Results expressed as  $\mu g/L$  unless otherwise noted.

ND means none detected at or above the detection limit listed.

15:12



Amos S. Kamerer Plant Manager Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-265-2631

February 9, 1995

Mr. Elliot Zais
Oregon Department of Environmental Quality
2020 SW Fourth Ave. #400
Portland, OR 97201

Reference: NPDES-DMR January 1995

Dear Mr. Zais:

Enclosed please find an amended DMR for January. One discharge and the related analysis information was accidently omitted in the original report that was dated 2/2/95. Only the flow and oil and grease information was affected by this omission and no violation resulted.

Sincerely

mos S. Kamerer lant Manager

Please accept my apology for this error.

NATIONAL FOLLUTANT OFSCHANGE CLIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DNR)

Koppers003498

PERMITTEE NAME/ADDRESS /Include

Facility Name/Location if different

PORTLAND, OR 97210	S. INC NS ROAD		10100	(2-16)		(17-19) 2 NARGE HUMPER 30	OME	n Approved. 3 No. 2040-000 roval expires 6		
ACILITY NORTHWEST PLAN OCATION MULTNOMAH COUR		<u> </u>	FROM 94 (20-21)	MONIT MO DA 12 0. (22-23) (24-2	10 94 126-27) /	MO DAY 12 31 28-29) (36-31)	IOTE: Read instruc	ctions before co	empleting this	s form
PARAMETER (32-37)		(46-53)	ANTITY OR LOADIN (54-61)		(38-45)	QUALITY OR CON- (46-JU)	(34-81)	NC	FREQUENT?	
(200)	SAMPLE MEAGUREMENT	16,452	MAXIMUM	UNITS	MINIMUM	AVERAGE	MUMIXAM	UNITS 622	(64-68) /A 13/31	(69 E.S
FLOW	erosie ereigi		N. A	GPD					X 13/31	1
•	SAMPLE MEASUREMENT				46	48	- 52	0	13/31	G
TEMPERATURE							115	• <sub>F</sub>		
	SAMPLE MEASUREMENT				6.4	6.6	6.7	0	13/31	G
	references.				£			SU		
OTI C CORLOR:	SAMPLE MEASUREMENT				N.D.	3,0	6.0	0	13/31	ي
OIL & GREASE					E N/A	10	اورد	mg/L		
PHENOLS	SAMPLE MEASUREMENT PERMIT SERVICES AND ENT				<b>.</b> 07	,10	,19	mg/L	13/31	G
	BAMPLE		- in delay des		<u> </u>			<i>-</i>		
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•	SAMPLE MEASUREMENT									
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PARAMETER (52-57)	X	(3 Card Only) QU (46-53) AVERAGE		OADING	(4 Card Only) (38-45) MINIMUM	QUALITY OR CON (46-U)	ICENTRATION (3/41) MAXIMUM	UNITS	NO.	FREQUENCY OF ANALYSIS (64-48)	BAM!
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	e di Tar										
Hq	BAMPLE HEABUREMENT			<u>.</u>	6.4	6.6	6.7	SU SU	0	12/30	GR
		<u> 25-16-16-1</u>			30.0						
OIL & GREASE	MEASUREMENT				N.D.	.67	4.0	ng/L	0	12/30	GR
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PHENOLS :	DAMPLE HEASUREMENT			•	N.D.	.10	.1	7   ng/L	0	12/30	GR/
			- <u> </u>		, , , , , , , , , , , , , , , , , , ,						
•	SAMPLE MEASUREMENT								25.72	5.	
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EPA Form \$320-1 (Rev., 9-88) Previous editions may be used.

Koppers003501

PERMITTEE HAME/ADDRESS (Include

IREPLACES EPA FORM T-40 WHICH MAY NOT BE USED.

PAGE 1

national pollutant discharge elimination eystem (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD

12-161

PERMIT NUMBER

101003

(17.19)

DISCHARGE NUMBER

3077-J

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Form Approved

OMB No. 2040-0004.

Approval expires 6-30-91.

SAMPLE

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KOPPERS

PORTLAND

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PERMITTEE NAME/ADDRESS (Include Feelity Name/Location if different)

MAME KOPPERS INDUSTRIES, INC.

APPROVE 7540 NM ST HELENS ROAD

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MATIONAL POLLUTANT OFFCHARGE ELIMINATION SYSTEM (NPDES)

Koppers003504

PERMITTEE MAMEIADDRESS (Include

PERMITTEE MAME/ADDRESS (Include Radia) Name/Location of different)  LAMB KOPPERS INDUSTRIES  ADDRESS 7540 NM ST HELFA  PORTLAND, OR 9721(	S. INC.		10100	(2-16)		ORY (DMR) (17-19) 0006 CHARGE NUMBER	Fo O 3077-J A	orm Approved MB No. 2040 oproval expir	-0004.			
PAGILITY NORTHWEST PLANT  COLOR HAMONTILLY MOITAGE	DRQ #47430		FROM 94 (2021)	MO D	TORING PERI AV VEAR 11 94 (26-27)	MO DAV 06 30 (28-29) (30-31)	47430 NOTE: Read inst	ructions befo	re com	pleting th	is form	
PARAMETER (32-37)		(46-33)	JANTITY OR LOADII (54-61)	NG.	(4 Card Only) (38-45)	(46-53)	ONCENTRATION (54-6/)		NO.	PREQUENC OF ANALYSIS	SAMPL TYPE	
	SAMPLE MEABUREMENT	AVERAGE	MUMIXAM	UNITS	, MINIMUM	AVERAGE	MUMIXAM	UNITS	(62-6J)	(64-68)	(69-70)	
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9	SAMPLE MEASUREMENT				58	60	62		0	4/30	GRAI	B
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Å; <b>Þ</b> ₽	SAMPLE MEASUREMENT TERLITY REQUESTIONS				6.8	6.9	7.0	SU	0	4/30	GRA	<u>B</u>
A DAR	SAMPLE MEASUREMENT				N.D.	1.8	4		0	4/30	GRAI	 B_
OIL & GREASES	erania più de	, 207			N/A	1.16	25	mg/L				
ក្ <sup>r</sup> <b>PHENOLS</b>	SAMPLE MEASUREMENT				N.D.	05ء	.11		0	4/30	GRA	В
4	TE OFFICE				N/A			mg/L				
<b>6</b> 0	SAMPLE MEASURENENT PERFA REQUIREMENT											
790/70	SAMPLE MEASUREMENT	:								_		
	and the same	, i j	1.3			A.	4.4					
J. R. BATCHELDER, V.P.	AND ALL ON MY OBTAIN IS TRU NIFICAN THE PO	M FAMILIAR WITH THE MIQUERY OF THOSE ING THE REFORMATI E. ACCURATE AND C IT PENALTIES FOR SSSIBLITY OF FRE	OF LAW THAY I MAVE E MEDINDUALS (MMEDIA) ON, I GELIEVE THE S COMPLETE I AM AMARE SUBMITTING FALSE IN AND MERISCHINGTON ARBUTO MERISCHING TO A MEDIC MERISCHING TO A MEDIC MEDIC MEDIC MEDICAL TO SEE MEDICAL M	TED HEREN; A TELY RESPON USMITTED OF THAT THERE FORMATION	IND BASED SIBLE FOR FORMATION ARE SIG. INCLUDING ICOL AND			REA MAINE	681	94 0		
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A COPY OF THE SECOND QUARTER PAH RESULTS IS ATTACHED



### **Analytical Data**

Koppers Industry

Job Number: 940607AY

Page Number: 3 of 3

Lab Sample ID: 940607AY-2

Field ID: WWT-4

Date/Time: 06/07/94 1500

Matrix: Waste Water

**BPA Category: Conventional Parameters** 

		Detection	Analytical		Analysis	
Parameter	Method	Limit	Result	Units	Date	Analyst
Oil & Grease	BPA 413.1	3.	4.	mg/L	06/09/94	DHN
Total Phenols	BPA 420.1	0.05	ND	mg/L	06/10/94	SVS

ND means none detected at or above the detection limit listed.

Analysis Performed: Polynuclear Aromatic Hydrocarbons in Waste Water, by EPA Method 8310, HPLC.

	Detection	Laboratory	Sample	Sample
Compound	Limit	Blank	Results	Duplicate
Aconaphthene	150	ND	ND	ND
Acceaphthylene	150	ND .	ND	ND
Anthracene	60	ND	ND	ND
Benzo(a)anthracene	10	ND	23	19
Benzo(b)fluoranthene	10	ND	26	27
Benzo(k)fluoranthene	15	ND	22	24
Benzo(g,h,i)pcrylene	20	ND	27	33
Bcnzo(a)pyrene	15	ND	43	43
Chrysene	10	ND (	25	25
Dibenzo(a,h)anthracene	10	ND	ND	ND
Pluoranthene	75	ND	ND	ND
Fluorene	25	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	15 ,	ND	40	- 39
Naphthalene	150	ND	ND	ND
Phenanthrene	25	ND	ND	ND
Pyrene	80	ND	ND	ND
			206	

Results expressed as  $\mu$ g/L unless otherwise noted.

ND means none detected at or above the detection limit listed.

COFFEY LABORATORIES, INC.

		**		(22-23) (24	-23) <sup>(1)</sup> (20-27) (		IOTE: Read inst	il decitoris poro	e con	ipiourig to	10 101111
PARAMETER		(3 Card Only) Q1 (46-53)	UANTITY OR LOADIN (54-61)	16	(4 Card Only) (38-45)	QUALITY OR CON- (46-53)	CENTRATION (54-61)		NO.	FREQUENC OF ANALYSIS	777
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	Į.	(69-7
Dr. or	SAMPLE MEASUREMEN	T 5,806	×						N/A	4/31	EST
FLOW	PERMIT REQUIREMEN	it N/A	N/A	GPD							
(IIII NOCE ) (IV PO C	SAMPLE MEASUREMEN	NT	,		64	64.5	66		0	4/31	GR/
TEMPERATURE	PERMIT REQUIREMEN	¥T					110	F			
	SAMPLE MEASUREMEN	NT	***		6.5	6.5	6.6	7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	4/31	GR
РΗ	PERMIT REQUIREMEN	(7			6.0		9.0	SU			1
	SAMPLE MEASUREMEN	NT			N.D.	N.D.	N.D.	mg/L	0	4/31	GR
OIL & GREASES	PERMIT REQUIREMEN	17			N/A	10	15	ling/ b			
· · · · · · · · · · · · · · · · · · ·	SAMPLE MEASUREMEN	NT			N.D.	.06	.10	mg/L	0	4/31	GR
PHENOLS	PERMIT REQUIREMEN	IT.	B.		N/A	.5	-7	"ing/ B			
	SAMPLE MEASUREMEN	NT			•		,			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	}
:	PERMIT REQUIREMEN	IT.						-			
	SAMPLE MEASUREMEN	NT 3					:				
	PERMIT REQUIREMEN	17	1								
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	NIF	CANT PENALTIES FOR	E INDIVIDUALS IMMEDIATION. I BELIEVE THE SI COMPLETE I AM AWARE SUBMITTING FALSE IN	FORMATION	INCLUDING LOCALITY	KAMERER, PI	ANT MGR		•		
. R. BATCHELDER, V.P.	THE	POSSIBILITY OF FINE A	AND IMPRISONMENT SEE	18 US.C . § nclude lines ur	1001 AND SIGNAL	URE OF PRINCIPAL	EXECUTIVE 5	03 286-3	3681	94	06
TYPED OR PRINTED	and	or maximum imprisonment	of between 6 months and 5	véaru.)		CER OR AUTHORIZ	ED AGENT	REA NUME	ER	YEAR	мо

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD

DAY

OI

YEAR

94

(17-19)

0005

мо

05

DISCHARGE NUMBER

DAY

31

3077-J 47430

CC: W. E. SWEARINGEN

(2-16)

PERMIT NUMBER

05

OR-100077-9

YEAR

94

FROM

Form Approved. OMB No. 2040-0004.

Approval expires 6-30-91.

PERMITTEE NAME | ADDRESS | Include Fecility Name | Location if different|
HAMS KOPPERS INDUSTRIES | INC.

ADDRESS 7540 NW ST HELENS ROAD

PORTLAND, OR 97210

EPA Form 3320-1 (Rev. 9-88) Previous editions may be used.

PACILITY NORTHWEST PLANT

Koppers003507

LOCATION MULTNOMAH COUNTY

W. E. Swearingen K-1800 Card Only) QUANTITY OR LOADING

(54-61)

MAXIMUM

(46-53)

AVERAGE

PERMITTEE NAME; ADDRESS (Include Fecility Name | Location of different)

MAME KOPPERS INDUSTRIES, INC.

ADDRESS 7540 NW ST HELENS ROAD

FACILITY NORTHWEST PLANT

LOCATION MULTNOMAH COUNTY

PARAMETER

(32-37)

PORTLAND, OR 97210

286-3681

NUMBER

Form Approved.

OMB No. 2040-0004.

NOTE: Read instructions before completing this form.

UNITS

FREQUENCY

OF

(64-68)

4/30

4/30

DATE

05

MO

YEAR

SAMPLE

(69-70)

EST.

**GRAB** 

**GRAB** 

**GRAB** 

**GRAB** 

Approval expires 6-30-91.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD

TO

(4 Card Only)

(38-45)

MUNIMUM

YEAR

94

DAY

OI

0004

DIRCHARGE NUMBER

DAY

30

730-317

(46-53)

AVERAGE

MA

04

126-271 128-291

3077-J

47430

(54-61)

MUMIKAM

QUALITY OR CONCENTRATION

OR-100077-9

YFAR

94

PERMIT NUMBER

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(20-21) (22-23) (24-25)

UNITE

EPA Form 3320-1 (Rev. 9-88) Previous editions may be used,

PERMITTEE NAME/ADDRESS Undede

**PORTLAND** 

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ROPPERS INDUSTRIE	ES INC.		DISCH	ARGE MOI	HARGE ELIMINATION NITORING REPO	RT (DMR) (17-19)	For	m Annrovo	.a		
7540 N.W. ST.	HELENS RD.		OR_1	.00077-9		001	OM	m Approve B No. 2040	0-0004		
PORTLAND, OR 972	<u> 210</u>		PERM	AIT NUMBER	DISCH		077-J Apr 7430	oroval expi	res 6-3	30-91.	
NORTHWEST PLAN			-	· · · · · · · · · · · · · · · · · · ·	TORING PERIC	D	7430				
ATION MULTNOMAH COUN	TY		FROM 194	01 01		MO DAY )1 31					:
`			(20-21)	(22-23) (24-	25) (26-27) (2	28-29) (30-31)	NOTE: Read instru	ctions befo	re con	pleting th	is form.
PARAMETER		(3 Card Only) QU: (46-53)	(54-61)	NG	(4 Card Only) (38-45)	QUALITY OR CO (46-53)	(54-61)		NO.	FREQUENC OF ANALYSIS	Y SAMI
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	(64-68)	(69-7
FLOW	SAMPLE MEASUREMENT	11613		GAD					N/A	8/31	EST
	PERMIT REQUIREMENT		N/A								
TEMPERATURE	SAMPLE MEASUREMENT				50	51	52		0	8/31	
	PERMIT REQUIREMENT						110				
PH	SAMPLE MEASUREMENT				6.3	6.6	6.8		0	8/31	GRA
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	4.4	14		0	8/31	GRA
	PERMIT REQUIREMENT					10	15				
PHENOLS	SAMPLE MEASUREMENT				.05	.10	.15		O	8/31	GRA
	PERMIT REQUIREMENT	•				.5	.7				
	SAMPLE MEASUREMENT									y Tank to take	
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT	•									A COM
	PERMIT REQUIREMENT					B)					
ME/TITLE PRINCIPAL EXECUTI	AND AN	FY UNDER PENALTY (	INFORMATION SUBMIT	TED HEREIN: AN	D BASED	WY THE		TELEPHON	E	D A	TE
MOS S. KAMERER	ON MY OBTAINI	INQUIRY OF THOSE NG THE INFORMATION C. ACCURATE AND CO	INDIVIDUALS IMMEDIA N. I BELIEVE THE S IMPLETE I AM AWADS	TELY RESPONSI UBMITTED INFO THAT THERE	BLE FOR DRMATION ARE SIG.	m-		•		,	
LANT MANAGER	NIFICAN THE PO	T PENALTIES FOR S SSIBILITY OF FINE AN	IUBMITTING FALSE IN ID IMPRISONMENT SEE	FORMATION, IN	OO1 AND	URE OF PRINCIPA	L EXECUTIVE 50	3   286-	3681	94 0	2 0
TYPED OR PRINTED		\$1319 (Penalties und naximum imprisonment o		include fines up (years.)		ER OR AUTHORI			BER		MO E
MENT AND EXPLANATION OF A THE 1ST QUARTER P									* * 1		



Koppers Industry

Job#: WG-940111K-2

Page 2

•	*.	Detection	WWT 3	WWT 4
<u>Parameter</u>	<u>Method</u>	<u>Limits</u>	<u>Results</u>	Results
Oil & Grease	EPA 413.1	3	ND	ND
Total Phenols	SM 420.1	0.05	0.14	0.15

Results expressed as mg/L unless otherwise noted.

SM means Standard Methods for the Examination of Water and Wastewater, 1985, 16th Edition.

ND means none detected at or above the detection limit listed.

Analysis Performed: Polynuclear Aromatic Hydrocarbons, by EPA Method 8310, Liquid Chromatography.

	Detection	Laboratory	WWT 4
Compound	<u>Limit</u>	<u>Blank</u>	<u>Results</u>
Acenaphthene	100	ND	ND
Acenaphthylene	100	ND	ND
Anthracene	20	ND	ND
Benzo(a)anthracene	2.0	ND	ND
Benzo(b)fluoranthene	2.5	ND	2.7
Benzo(k)fluoranthene	2.5	ND	2.8
Benzo(g,h,i)perylene	6.0	ND	ND
Benzo(a)pyrene	2.5	ND	5.4
Chrysene	3.0	ND	ND
Dibenzo(a,h)anthracene	6.0	ND	ND
Fluoranthene	20	ND	ND
Fluorene	20	ND	ND
<pre>Indeno(1,2,3-c,d)pyrene</pre>	6.0	ND	ND
Naphthalene	100	ND	ND
Phenanthrene	20	ND	ND
Pyrene	20	ND	ND

Results expressed as  $\mu g/L$  unless otherwise noted.

ND means none detected at or above the detection limit listed.

Facility Parme/Location if different NAME KOPPERS INDU- ADDRESS 7540 NW ST H	STRIES, INC. ELENS ROAD		OR-10	UTANT DISC ARGE MOI (2-16) 0077-9 IT NUMBER	001	RT (DMR) (17-19)	2077 7	æ		Form Appro OMB No. 20 Expires 3-3	040-0004
PACILITY NORTHWEST PLA	ANT		FROM 93		TORING PERIO		3077-J 47430 NOJE: Read instru	ctions befo	re com	pleting thi	s form.
PARAMETER		(3 Card Only) QU (46-53)	ANTITY OR LOADIN (54-61)			QUALITY OR CO (46-53)	NCENTRATION (54-61)		NO.	FREQUENCY OF ANALYSIS	SAMPLE
45 000 K 10 : 31 F	1, 126	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	(64-68)	(69-70)
	SAMPLE MEASUREMENT	14,516		GAD	L.				N/A	10/31	EST.
FLOW	PERMIT REQUIREMENT		N/A								
	SAMPLE MEASUREMENT				45	48	52		0_	10/31	GRAB
TEMPERATURE	PERMIT REQUIREMENT						110				
	SAMPLE MEASUREMENT				6.7	7.0	7.2		0	10/31	GRAB
рН	PERMIT REQUIREMENT				6.0		9.0				-
	SAMPLE MEASUREMENT				N.D.	4	10		0	10/31	GRAB
OIL & GREASES	PERMIT REQUIREMENT			٠.		10	15				, i
	SAMPLE MEASUREMENT				N.D.	.04	.08		0	10/31	GRAB
PHENOLS	PERMIT REQUIREMENT					-5	.7				
	SAMPLE MEABUREMENT										
•	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	•				0		:			
NAME/TITLE PRINCIPAL EXECUTIVE	AND AM	FAMILIAR WITH THE	OF LAW THAT I HAVE P INFORMATION SUBMITTE INDIVIDUALS IMMEDIATE	D HERFIN AN	ID BASED			TELEPHONE		DA	TE
AMOS S. KAMERER PLANT MANAGER	IS TRUE	T. ACCURATE AND CO T. PENALTIES FOR S SSIBILITY OF FINE AN	INDIVIDUALS IMMEDIATE N. I BELIEVE THE SU MPLETE I AM AWARE SUBMITTING FALSE INF ID IMPRISONMENT SEE for these statutes may in feature of months and 5 y	THAT THERE ORMATION, II IB U.S.C. I	ARE SIG NCLUDING 1001 AND (0 \$10,00)	RE OF PRINCIPA		286-36		94 0	
TYPED OR PRINTED				TU: N. !	OFFIC	ER OR AUTHORI	ZED AGENT COD	NUMB	ER	YEAR M	O DAY

THE 4TH QUARTER PAH TEST RESULTS ARE ATTACHED

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Facility Name/Location if different) NAME KOPPERS INDUSTRIE ADDRESS 7540 N.W. ST. PORTLAND, OR 97	S INC. HELENS RD.		OR-100	ARGE MO (2-16)	00	RT (DMR) (17-19)	3077 <b>-</b> J 47430		,	Form Approv OMB No. 20 Expires 3-31	40-0004
PAGILITY NORTHWEST PLAN LOCATION MULTNOMAH COUNT			FROM 93 (20-21)		'° 93 1	MO DAY 1 30 28-29) (30-31)	NOTE: Read instru	ictions befo	re com	pletting this	form.
PARAMETER		(3 Card Only) QUA (46-53)	ANTITY OR LOADIN (54-61)	G	(4 Card Only) (38-45)	QUALITY OR C (46-53)	ONCENTRATION (54-61)		NO.	FREQUENCY	SAMPLE TYPE
(32-37)		AVERAGE	MAXIMUM	BTINU	MUMINIM	AVERAGE	MUMIXAM	UNITS	1.	(64-68)	(69-70)
FLOW	SAMPLE Measurement	6,000			-				N/A	4/30	EST.
22011	PERMIT REQUIREMENT		N/A	GPD							
	SAMPLE MEASUREMENT				45	51.5	58	°F	0	4/30	GRAB**
TEMPERATURE	PERMIT REQUIREMENT						110	و د د د د د د د د د د د د د د د د د د د			istra .
PH	SAMPLE MEASUREMENT				6.8	7.1	7.4	SU	0	4/30	GRAB A
,	PERMIT REQUIREMENT				6.0		9.07-97				
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	2.5	5	MG/L	0	4/30	GRAB
	PERMIT REQUIREMENT					10,	15 224				
PHENOLS	SAMPLE MEASUREMENT	÷			N.D.	N.D.	N.D.	MG/L	o j	4/30	GRAB.
	PERMIT AKGUIREMENT					.5	1027568				
	SAMPLE MEASUREMENT			<u> </u>							
	PERMIT! REQUIREMENT:			•							
	SAMPLE MEASUREMENT			TT							
	PERMIT REQUIREMENT					40					
NAME/TITLE PRINCIPAL EXECUTIVE	A OFFICER   CERT	FY UNDER PENALTY C	F LAW THAT I HAVE F	ERSONALLY	EXAMINED			TELEPHON	Edition A	N S A	7:5
AMOS S. KAMERER			INFORMATION SUBMITTE INDIVIDUALS IMMEDIATE I. I BELIEVE THE SUI MPLETE I AM AWARE			hi			Ġ.	6.	
PLANT MANAGER	NIFICAN THE PO	T PENALTIES FOR S SSIBILITY OF FINE AN \$ 1319. (Penalties und	MPLETE, I AM AWARE UBMITTING FALSE, INF D IMPRISONMENT, SEE	ORMATION I	NCLUDING	JRE OF PRINCIP		in take	681	93, 12	. 14
TYPED OR PRINTED			er these statutes may in hetween 6 months and 5 y s here)	ears.i	OFFIC	ER OR AUTHOR	RIZED AGENT AR	NUME	ER 🥖	YKAR M	DAY

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PERMITTEE NAME/ADDRESS (Incl Facility Name (Location if different) NAME KOPPERS INDUSTI ADDRESS 7540 N.W. ST PORTLAND, OR 9	RIES INC. . HELENS ROAD		OR-10		NITORING RE	PORT (DMR) (17-19)  0001 SCHARGE NUMBER	3077-J			Form Appro OMB No. 20 Expires 3-3	040-0004
			_	MONI	TORING PER	IOD	47430				
PACILITY R NORTHWEST		<del> </del>	FROM 03		AY YEAR	<del></del>					
1002110.111. 0			_   93	$\frac{10}{(22-23)} \frac{0}{(24-23)}$	.   JJ	$\begin{array}{c cccc} 10 & 31 \\ \hline (28-29) & (30-31) \end{array}$	NOTE: Read instru	uctions befo	re com	pleting thi	s form.
PARAMETER		(3 Card Only) QU (46-53)	ANTITY OR LOADII (54-61)	NG	(4 Card Only) (38-45)	QUALITY OR CON (46-53)	CENTRATION (54-61)	1		FREQUENCY	
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX (62-63)	OF ANALYSIS (64-68)	(69-70)
¥ <b>£%%%%%%</b> ¥ <b>£%%%</b> FLOW	SAMPLE MEASUREMENT	2903							N/A	2/31	EST.
	PERMIT REQUIREMENT		N/A								
	SAMPLE MEASUREMENT				63	63	63	•F	0	2/31	GRAB
TEMP	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT			·	7.1	7.2	7.3	,	0	2/31	GRAB
рH	PERMIT REQUIREMENT				6.0		9.0	SU			
	SAMPLE MEASUREMENT				ND	<1.5	<3.0	mg/L	0	2/31	GRAB
OIL & GREASES	PERMIT REQUIREMENT							(ppm)			
	SAMPLE MEASUREMENT				ND	ND	ND	Me/L	0	2/31	GRAB
PHENOLS	PERMIT REQUIREMENT					00.5	0.7	(PPm)			
	SAMPLE MEASUREMENT		,								\$ .
· _	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT									•••	
	PERMIT REQUIREMENT					2					
NAME/TITLE PRINCIPAL EXECUT	AND AN	STANDING WITH THE	OF LAW THAT ! HAVE	ED MEDELN AN	ID BASED			TELEPHONE		D A	TE
A. S. KAMERER PLANT MANAGER	NIFICAN THE PO	IT PENALTIES FOR ! DSSIBILITY OF FINE AT D \$1319. (Penalties un	INDIVIDUALS IMMEDIAT IN. I BELIEVE THE SI DMPLETE. I AM AWARE SUBMITTING FALSE IN ND IMPRISONMENT. SEE der these statutes may is	FORMATION. II 18 U.S.C § 1 nclude fines un	NCLUDING	LA OF PRINCIPAL	EXECUTIVE 50	3   286–3	681	93 1	1 08
TYPED OR PRINTED	and or r	maximum imprisonment i	of between 6 months and 5	years.i	/9/	FOR AUTHORIZ	ED AGENT CO	NUMB	ER		IO DAY
TYPED OR PRINTED COMMENT AND EXPLANATION OF		<u> </u>				TOPEN ON AUTHORIZ	ED AGENT CO	DE NUMB	KR	YEAR   M	O   DAY

AS WE HAD NO RAIN IN SEPTEMBER, WE DID NOT HAVE ANY DISCHARGE. WE DID COLLECT A SAMPLE ON 9/30/93 AND THE PAH

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD

то

(4 Card Only)

(38-45)

MINIMUM

YEAR

93 09 (26-27) (28-29)

(2-16)

PERMIT NUMBER

мо

(22-23) (24-25)

UNITS

09 01

DAY

OR-100077-9

YEAR

93

120-211

FROM

(54-61)

MAXIMUM

3 Card Only) QUANTITY OR LOADING

(46-53)

AVERAGE

SAMPLE

(17.19)

DISCHARGE NUMBER

DAY

30 (30.31)

(46-53)

AVERAGE

OFFICER OR AUTHORIZED AGENT

QUALITY OR CONCENTRATION

0001

MO

Koppers003517

PERMITTEE NAME (ADDRESS (Include Facility Name/Location if different)

FACILITY NORTHWEST PLANT

LOCATION MULTNOMAH COUNTY

PARAMETER

(32-37)

TYPED OR PRINTED

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

RESULTS OF THAT SAMPLE ARE ATTACHED.

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED.

FI.OW

PORTLAND, OR 97210

MAME KOPPERS INDUSTRIES INC.

ADDRESS 7540 N.W. ST. HELENS RD.

 3077-J 47430			Form Approv OMB No. 20 Expires 3-31	40-0004	w ,
OTE: Read instruc	tions befor		pleting this		, ]
(54-61) MAXIMUM	UNITS	NO, EX (62-63)	OF ANALYSIS (64-68)	8AMPLE TYPE (69-70)	
		(02-03)	(04-00)	(05-70)	
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					6

DATE

10

18

DAY

93

PAGE

NUMBER

CODE

FLOW	SAMPLE MEASUREMENT	2903	
LEON	PERMIT REQUIREMENT		
TEMP	SAMPLE MEASUREMENT	•	
	PERMIT REQUIREMENT		
PH	SAMPLE MEASUREMENT		
	PERMIT REQUIREMENT		
OIL & GREASES	SAMPLE MEASUREMENT		
·	PERMIT REQUIREMENT		
PHENOLS	SAMPLE MEASUREMENT		
	PERMIT REQUIREMENT		
	SAMPLE MEASUREMENT		
	PERMIT REQUIREMENT		
	BAMPLE MEASUREMENT		
	2501117		

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME KOPPERS INDUSTRIES INC.

PORTLAND, OR 97210

FACILITY NORTHWEST PLANT

LOCATION MULTNOMAH COUNTY

ADDRESS 7540 N.W. ST. HELENS RD.

NATIONAL POLLUTANT	DISCHARGE ELIMINATION SYSTEM (NPDES)
	MONITORING REPORT (DMR)
(2-16)	(17-19)

(2-16) OR-100077-9 PERMIT NUMBER

0001 DISCHARGE NUMBER 3077-BJ 47430

Form Approved OMB No. 2040-0004 Expires 3-31-88

MONITORING PERIOD YEAR MO DAY DAY YEAR FROM 93 08 31 93 08 01 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER		(3 Card Only) QU. (46-53)	ANTITY OR LOADIN	<i>(22-23) (24</i> 1G	(4 Card Only) (38-45)	QUALITY OR CONC (46-53)	ENTRATION (54-61)	4	NO.	FREQUENCY OF ANALYSIS	SAMPLI
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NOTE TO GEORGE DAVIS: ATTACHED IS THE 6/22/93 PAH REPORT THAT WE DISCUSSED

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

33 USC \$ 1319. (Penalties under these statutes may include fines up to \$111,1881 and or maximum imprisonment of between 6 months and 5 years.)

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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TYPED OR PRINTED

PERMITTEE NAME/ADDRESS (Include

FACILITY NORTHWEST PLANT

PARAMETER

(32-37)

LOCATION MULTNOMAH COUNTY

Facility Name Location is different include NAME KOPPERS INDUSTRIES INC.

ADDRESS 7540 NW ST HELENS RD.

PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

OR-100077-9

YEAR

93

QUANTITY OR LOADING

(54-61)

MAXIMUM

Card Only)

(46-53)

AVERAGE

SAMPLE

PERMIT NUMBER

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(20-21) -(22-23) (24-25)

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DISCHARGE MONITORING REPORT IDMRI

MONITORING PERIOD

(4 Card Only)

(38-45)

MINIMUM

YEAR

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(17.10)

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(30-31)

(46-53)

AVERAGE

NATURE OF PRINCIPAL EXECUTIVE

OFFICER OR AUTHORIZED AGENT

QUALITY OR CONCENTRATION

(54-61)

MAXIMUM

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NUMBER

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Form Approved

Expires 3-31-88

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OF ANALYSIS

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NOTE: Read instructions before completing this form

UNITS

OMB No. 2040-0004

DATE

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MONITORING PERIOD

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AVERAGE

QUALITY OR CONCENTRATION

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(54-61)

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YEAR

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Form Approved

**Expires 3-31-88** 

FREQUENCY

OF

(64-68)

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62-63)

SAMPLE TYPE

(69-70)

NOTE: Read instructions before completing this form.

UNITS

OMB No. 2040-0004

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

PERMIT NUMBER

6

(20:21) (22:23) (24:25)

UNITS

GPO

OR-100077-9

YEAR

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FROM

QUANTITY OR LOADING

(54-61)

MAXIMUM

Card Only)

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SAMPLE MEASUREMENT

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PREVIOUS EDITION TO BE USED

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USEL UNTIL SUPPLY IS EXHAUSTED.

(46-53)

AVERAGE

PERMITTEE NAME/ADDRESS (Include ...

PARAMETER

(32-37)

PACILITY

Koppers003520

LOCATION

Facility Name (Location if different)
NAME KOPPERS INDUSTRIES INC

PORTLAND, OR 97210

NORTHWEST PLAND

MULTNOMAH COUNTY

ADDRESS 7540 NW ST HELENS RD.

PERMITTEE NAME/ADDRESS (Include NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) Form Approved Facility Name/Location if different) DISCHARGE MONITORING REPORT (DMR) lo. 2040-0004 NAME - KOPPERS INDUSTRIES INC 12-161 117.191 ADDRESS XXX 7540 NW ST HELENS RD OR-100077-9 0001 3077 PORTLAND OR 97210 PERMIT NUMBER DISCHARGE NUMBER JUN 2 2 1993 4743 MONITORING PERIOD FACILITY NORTHWEST PLANT PAY YEAR YEAR LOCATION MULTNOMAH COUNTY FROM TO 93 31 OCCUPATIONAL HEALTH 93 Read in a PROPERTY STREET, Young leting this form. (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) (3 Card Only) QUANTITY OR LOADING (4 Card Only) QUALITY OR CONCENTRATION FREQUENCY SAMPLE (54-61) PARAMETER (46-53) (54-61) (38-45) : (46-53): OF ANALYSIS EX. TYPE (32-37)MAXIMIM AVERAGE MAXIMUM UNITS AVERAGE UNITS MINIMUM (64-68) (69-70)(62-63) SAMPLE MEASUREMENT EST FLOW 5806 MAR I GRAB

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33 U.S.C \$ 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

OFFICER OR AUTHORIZED AGENT

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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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Bull Swearingen	Oxford
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Doc. ID: 8310.FOR Volume: Section: Revision #: 00 Date: January 28, 1992 Page 1

Analysis Requested: Polynuclear Aromatic Hydrocarbons in Wall by EPA Method 8310, HPLC.

client: Koppen	5.	Job # WC 4	130302 AY . 3
Analyst: DHG	13	Report Date:	3/24/93
Date Analyzed:	3/26/93	Date Extracte	a: 3/8/93
Logbook Referenc	e: Log 346 p.	70 Reviewed_	

Prep. Info/Comments:

Units:

P.A.H. T-1

COMPOUND	DETECTION	LABORATORY BLANK	AY3		
Acenaphthene	10		NO		
Acenaphthylene	10				
Anthracene	0.1		4		
Benzo(a) anthracene	110		7,2	7.2	V
Benzo(b) fluoranthana	2,0		ND		
Benzo(k) fluoranthens	210	·	1		
Benzo(g,h,i)perylene	40				
Benzo(a) pyrene	2,0		613	6.3	-
Chrysene	110		7/20(	1.03/10	,
Dibenzo(a,h)anthracens	4,0		40		
Fluoranthene	210		12,5	12.5	
Fluorene	2,0		5710	(CV	
Indeno(1,2,3-cd)pyrene	4,0	,	ND		
Naphthalene	6,8		4		
Phenanthrene	2,0		15,0	5.4	~
Pyrene	4,0		11.8	11.8	

Total -

3K

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PERMITTEE NAME ADDRESS (Include Facility Name/Location if different) NAME KOPPERS INDUSTRI			DISCH	ARGE MOI (2-16)	HARGE ELIMINATION	(17-19)	S)		Form Approved: OMB No. 2040-0004 Expires 3-31-88
ADDRESS 7540 N.W. ST. PORTLAND, OR	97210	KD.		00077-9		OO1			
				MONI	TORING PERIC	D D	3077-J		
LOCATION MULTNOMAH COU			FROM YEAR			MO DAY	47430		
SOUTH COLLINOTIAN COD	NII.		- <u>  93  </u>	02 0 (22-23) (24:		02 28 28-29) (30-31)	NOTE: Read instri	uctions before	ompleting this form.
PARAMETER (32-37)		(46-53)	ANTITY OR LOADIN (54-61)		(38-45)	(46-53)	ONCENTRATION (\$4-61)		FREQUENCY SAMPLE
1		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS (62	-63) - (64-68) (69-70)
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TEMP	SAMPLE MEASUREMEN	т			NO: FLOW				
	PERMIT REQUIREMEN	г							<b>9</b> 74
РН	SAMPLE MEASUREMEN	т			NO FLOW		MAR 1.8	933	
	PERMIT REQUIREMENT								7
OIL & GREASE	SAMPLE MEASUREMEN	т			NO FLOW				
	PERMIT REQUIREMENT					Basa	Market State Co. Land Belleville		
PHENOLS	SAMPLE MEASUREMEN	т			NO FLOW				
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JOHN A. OXFORD PLANT MANAGER	OBT/ IS T NIFIC THE	MY INQUIRY OF THOSE INNING THE INFORMATION RUE ACCURATE AND CO ANT PENALTIES FOR POSSIBILITY OF FINE AP	ON I BELIEVE THE SU OMPLETE I AM AWARE SUBMITTING FALSE INF NO IMPRISONMENT. SEE	BMITTED INFO THAT THERE ORMATION IN 18 U.S.C. \$ 1	PRMATION ARE SIG	oh a	DELLE SO	3 286-36	A) Q3: /3; /3;
TYPED OR PRINTED	and	SC § 1319. (Penalties un or maximum imprisonment o	of hetween 6 months and 5 y	clude fines up rears.)	10. 210,000	ER OR AUTHO			
COMMENT AND EXPLANATION OF AN	Y VIOLATIONS (	Reference all attachmen	its here)						
	VIOUS EDITION IL SUPPLY IS EX		(REPLACES EPA FO	RM T-40 WI	IICH MAY NOT BE	USED.			PAGE OF 1

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acility Name/Location if different)	TNC		DISCHA	ARGE MON (2-16)	ITORING REPOR					OMB No. 20 Expires 3-31	40-0004
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ACILITY NW PLANT			- YEAR	MO DA	YEAR N	MO DAY 30	77-J				
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PARAMETER		(3. Card Only) QUA (46-53)	ANTITY OR LOADIN (54-61)	G	(4 Card Only) 7 10 (38-45)	QUALITY OR CON( (46-53)€	(54-61)		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	(64-68)	(69-70)
FLOW	SAMPLE MEASUREMENT	5086							N/A	4/31	EST
FLOW	PERMIT REQUIREMENT	9000	EST	GRD			20				
TEMP	SAMPLE MEASUREMENT				42	47.5	52	0	<b>4</b> x 0	431	GRAB
	PERMIT REQUIREMENT						100			13 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 an	
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OIL & GREASE	SAMPLE: MEASUREMENT			1	10	1.275		MG/L	0	4/31	GRAB
	PERMIT REQUIREMENT				- 1 <sup>mg</sup> 1, 7, 14 なめまし	10	15 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -		1975.1	U. C. Walle	nii ee ee ee
PHENOLS	SAMPLE: MEASUREMENT				0.13	0.155	0.19	MG/L	0	4/31	GRAB
	PERMIT REQUIREMEN?					0.6		(PPM)			
	SAMPLE MEASUREMENT		,,, l 9 1993								
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OMMENT AND EXPLANATION OF AN	Y VIOLATIONS (Re	iference all attachments	s here):		<b>基层的"多"等集</b>		119年高清晰	<b>了科技技</b>	17.3		

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PERMITTEE NAME ADDRESS (Include Facility Name Location of different)  NAME - KOPPERS INDUSTRI  ADDRESS 7540 NW ST HELEN  PORTLAND OR 9721	<del>S-RD</del>		DISCH	UTANT DISC ARGE MOI (2-16) 0077-9 IT NUMBER		SYSTEM (NRDE RT (DMR) 17-19)	OCCUPATIO & PRODUC 3077-J			2040-0004
PACILITY N.W. PLANT LOCATION MULTINOMALI COUNTY			FROM (20-21)		<sup>10</sup> 92	D DAV 11 30 31)		7 1992	e completing thi	is form.
PARAMETER		(3 Card Only) QU (46-53)	ANTITY OR LOADIN			QUALITY OR ( (46-53)	CONCENTRATION (54-61)		NO FREQUENC	
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63) (64-68)	(69-70)
FLOW	SAMPLE MEASUREMENT	3000							N <sub>/A</sub> 2/ <sub>30</sub>	EST
	PERMIT REQUIREMENT		EST	GPD					132	
TEMP	SAMPLE MEASUREMENT				46	46	46		o <sup>2</sup> /30	GRAB
	PERMIT REQUIREMENT						100	o F	-	15, 13,78
<b>SPKX</b> PH	SAMPLE MEASUREMENT				7.4	7.45	7.5		o 2/30	CRAB
	PERMIT REQUIREMENT				6.0		9.0	SU		
OIL & GREASE	SAMPLE MEASUREMENT				0.6	0.6	0.6	MG	o 2/30	GRAB
	PERMIT REQUIREMENT	1			0.9	1.25	1.0	- (h	-	
PHENOLS	SAMPLE MEASUREMENT				N/D	0.03	0.06	MG/ (PPM)	e 2/30	GRAB
	PERMIT REQUIREMENT				100 X 100 X	0.5	0.7			92
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DISCHARGE MONITORING REPORT (DMR)
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MONITORING PERIOD

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Form Approved OMB No. 2040-0004 Expires 3-31-88

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OGCUPATIONAL HEALTH

PERMITTEE NAME / ADDRESS (Include Facility Name / Location if different)

NAME - KODDERS INDUSTRIES INC

PORTLAND OR 97210

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED.

ADDRESS 7540 NW ST HELENS RD

FACILITY NORTHWEST PLANT

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

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PORTLAND OR 97210

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KOPPERS INDUSTRIES INC

7540 NW ST HELENS RD

PORTLAND OR 92710

Facility Name/Location if different)

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Form Approved

Expires 3-31-88

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OCCUPATIONAL HEALTH

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PARAMETER		(46-53)	(20-21) JANTITY OR LOADII (54-61)		(4 Card Only) (38-45)	QUALITY OR CON (46-53)	(54-61)	£	NO.	FREQUENCY OF ANALYSIS	SAMPL TYPE
	SAMPLE MEASUREMENT	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE,	MAXIMUM	UNITS	(62-63) N /	4/30	(69-70)
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DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD

(38-45)

MINIMUM

- 58

YEAR

91

DAY

(2-16)

YEAR

91

(20-21)

FROM

(54-61)

NA

MAXIMUM

Card Only QUANTITY OR LOADING

(46-53)

AVERAGE

2903

08-100077-9 PERMIT NUMBER

MO

10

(22-23) (24-25)

UNITS

GPD

(17-19)

0

DAY

31

(46-53)

AVFRAGE

58.5

3077-J

(54-61)

MAXIMUM

59

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47430

DISCHARGE NUMBER

MO

(26-27) (28-29) (30-31)

(4 Card Only) QUALITY OR CONCENTRATION

PERMITTEE NAME ADDRESS (Include

NAME - KOPPERS INDUSTRIES INC

NORTHWEST PLANT

SAMPLE

MEASUREMENT

PERMIT REQUIREMENT

SAMPLE MEASUREMENT

PERMIT

REQUIREMENT

ADDRESS 37540 NW ST HELENS RD

LOCATION MILL THOMAH COUNTY

PARAMETER

(32-37)

Facility Name/Location if different)

FACILITY

FLOW

TEMP

OCCUPATIONAL FORMANDIA OMB. No. 2040-UL & PRODUCT SAFETY NOV 18 1991

NOTE: Read instructions before completing this form.

UNITS

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OMB No. 2040-0004

FREQUENCY

OF ANALYSIS

(64-68)

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62-63)

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SAMPLE

TYPE

(69-70)

EST

GRAB

## **GENERAL INSTRUCTIONS**

- 1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
- Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated (A separate form is required for each discharge.)
- Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
- Enter each "PARAMETER" as specified in monitoring requirements of permit.

23

- Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in peanits. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements; obtained during "MONITORING PERIOD." (NOTE: to municipals with secondary treatment requirement, enter 30 day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under
- Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
- Under 'NO. EX" enter number of sample measurements during manitoring period that exceed maximum (and/or minimum or 7 day
- average as appropriate) permit requirement for each parameter. If none, enter "0".

  Enter, "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring. "1/7" for one day per week. "1/30" for one day per month. "1/90" for one day per quarter, etc.)
- Enter 'SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as & o "PERMIT REQUIREMENT." (e.g., Enter "GRAB" for individual sample. "24HC" for 24hour composite. "NA" for continuous

	monitoring, etc.)								ř.	\$ US	
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13.	Mail signed Report to								000	(E) 0	115 65
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BUSINESS JANOTAN

QUANTITY OR LOADING

(54-61)

Card Only)

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NATIONAL POLITITANT DISCHARGE FLUMINATION SYSTEM (NPDFS)

MONITORING PERIOD

(4 Card Only)

(38-45)

OR-100077-9

PERMIT NUMBER

(20-21) (22-23) (24-25)

DISCHARGE MONITORING REPORT (DM OCCUPATIONAL HEALTH

DISCHARGE NUMBER

(26-27) (28-29) (30-31)

& PRODUCT SAFETY

967723 1991

(54-61)

QUALITY OR CONCENTRATION

(46-53)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

PLANT MANAGER

TYPED OR PRINTED" "

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

PACILITY NORTHWEST PLANT LOCATION | MULTNOMAH COUNTY

PARAMETER

NAME KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD

91

286-368L \$88XX88XX

NUMBER

10

17

DAY

OF 1

Form Approved

Expires 3-31-88

REQUENC

OF

(64-68)

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SAMPLE

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GRAB

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NOTE: Read instructions before completing this form.

OMB No. 2040-0004

## GENERAL INSTRUCTIONS

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MONITORING PERIOD

MINIMUM

YEAR

91

126-271 (28-29)

DAY

(22-23) (24-25)

UNITS

GPD

(17-19)

DISCHARGE NUMBER

/30-311

(4 Card Only) OUALITY OR CONCENTRATION (64-61)

AVERAGE

50.5

(2.16)\*

OR-100077-0 PERMIT NUMBER

91

120-211

FROM

1 7

MAXIMUM

Card Only QUANTITY OR LOADING (46-53) (54-61)

AVERAGE

2904

SÄMPLE MEASUREMENT

PERMIT REQUIREMENT

SAMPLE MEASUREMENT

DEBMIT REQUIREMENT

PERMITTEE NAME ADDRESS Y line lude Facility Name/Location if different

FACILITY N W DI ANT

PARAMETER

(32-37)

FLOW

TEMP

LOCATION MULTNOMAH COUNTY

NAME KOPPERS INDUSTRIES INC

ADDRESS 549 NW ST HELENS RD

PORTLAND OR 97210

OCCUPATIONAL HEAL - APR 19 1991

MAXIMUM

110

NOTE: Read instructions before completing this form.

UNITS

O

NO.

EX.

(62-63)

O

Form Approved OMB No. 2040-0004

Expires 3-31-88

FREQUENC'

OF ANALYSIS

(64-68)

2

2

31

SAMPLE

TYPE

(69-70)

EST

GRAB

**GENERAL INSTRUCTIONS** 1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.) 3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated. Enter each "PARAMETER" as specified in monitoring requirements of permit. Enter SAMPLE MEASUREMENT!" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipals with secondary treatment requirement, enter 30 day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM" 6. Enter PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit. 7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter If none, enter "0".

Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT," for continuous monitoring. "1/7" for one day per week. "1/30" for one day per month. "1/90" for one day per quarter, etc.) "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT!" (e.g., Enter "GRAB" for individual sample. "24HC" for 24 hour composite. "N/A" for continuous? monitoring, etc.) X (тейін адан олоя) WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN REFERENCE EACH VIOLATION BY DATE If 'no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry Entero NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER" AUTHORIZED AGENT." "TELEPHONE NUMBER" and "DATE" at bottom of form. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records. 14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit. ã LEGAL NOTICE This report is required by law (33 U.S.C. 1318: 40 C.F.R. 125:27). Failure to report or failure to report truthfully can result in civil penalties no to exceed \$19,000 per day of violation: or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than Ω 0 LOVER 39.51 MANIMORN 30 LOTO HERE SECOND 30A95V6 ô L X X ×. Chergas E-COUR EXECUTANE OKECHO NUMPCEN **STAMP** CERTYE PRINCIPAL ij この国際国の 口以加 記書の 47. 1821021 1

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DISCHARGE MONITORING REPORT (DMR)

Form Approved

PERMITTEE NAME/ADDRESS (Include

Facility Name/Location if different)

12-161

(20-21) (22-23) (24-25)

UNITS

GPD

OR-100077-9 PERMIT NUMBER

YEAR

90

FROM

QUANTITY OR LOADING

(54-61)

MAXIMUM

(3 Card Only)

3000

SAMPLE MEASUREMENT

PERMIT REQUIREMENT (46-53)

AVERAGE

DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD

то

(4 Card Only)

(38-45)

MINIMUM

YEAR

90

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(17-19)

DISCHARGE NUMBER

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(46-53)

AVERAGE

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(26-27) (28-29) : (30-31)

3077-3

47430

(54.61)

MAXIMUM

QUALITY OR CONCENTRATION

PERMITTEE NAME/ADDRESS (Include

ADDRESS

PACILITY

LOCATION

FLOW

Facility Name/Location if different)

PARAMETER

(32-37)

MAME KOPPERS INDUSTRIES INC

N-W-PLANT

7540 NW ST HELENS RE

MULTNOMAH COUNTY

OCCUPATION AL OMB No. 2040-or & PRODUCT SAFETY

FEB 111991

NOTE: Read instructions before completing this form.

UNITS

NO

EX

OMB No. 2040-0004

PEQUENCY

OF

(64-68)

SAMPLE

TYPE

(69-70)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)  NAME KOPPERS INDUSTRI ADDRESS 7540 N.W ST HE	LENS ROAD		OR1000	UTANT DISC ARGE MOI (2-16)	HARGE ELIMINAT	000UF & RF 30775	ATIONA PODUCT VOV 28	Form Approved L HEA/B Hp. 2040-0004 SAFETY 3-31-88					
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DISCHARGE MONITORING REPORT (DMR)

OR-100077-9

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD

Form Approved

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)  NAME KOPPERS INDUSTRIES	INC		DISCHAR		ARGE ELIMINATION TORING REPORT	ON SYSTEM (NPDES) RT (DMR) (17-19)	OCCUPATION	NAL HEAL	Form Approve OMB No. 204	ed. 40-0004 vires 9-30-85
ADDRESS 7540 NW ST HELENS		<u> </u>		100077	_0		& PRODUC	TSAFET		
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)  NAME KOPPERS INDUST	RIES INC	· · · · · · · · · · · · · · · · · · ·			ARGE ELIMINATION TORING REPOR		0000000000		Form Approved. OMB No. 2040-0004 Approvel expires 9-30-85
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-100077-9

PERMIT NUMBER

(17-19)

DISCHARGE NUMBER

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

ADDRESS 7540 NW ST HELENS RD

PORTLAND OR 97210

NAME

KOPPERS INGHIN INDUSTRIES INC

& PRODUCT SAFETY

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PRODUCT MAY 18 1990

SPLIT SAMPLE RESULTS REPORT

Scurce Name: KOPPERS OUTFALL	Sample Date: 4-26-90	
Contact Person: JOHN H OXFOICD	Phone: 286-3681	•
Address: 7540 N.W. ST HELENS RD		٠
Collected By: WIXOM & OXFORD	Region/Division: // W	٠
		•

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	FIELD	MEASURE	ENIS*	SOURCE	SAMPLE RE	SULIS	DEQ	LAB RESU	IIS .
	Influent	Effluent grab	Effluent Comp	Influent	Effluent grab	Effluent comp	Influent	Effluent grab	Effluent comp
CBOD or BOD"	12								
Suspended Solids	•			·					
Fecal Coliform	MPN MF			MPN MF			MPN MF	MPN ME	
Chlorine Residual							-		
Hq		,			6.7				
TEMP					54%				
OH & GR	1548E				0.7 mg	; <u>Z</u>			
PHENOLS	3				0.36 MG	_ {			
				.	1.				

*DEQ	sampler	- ent	er field	measurement	s, i	if taker	n; indic	ate wh	ether the	y ar	re estimates.	
_CECI	) is whe	n nitr	ification	n inhibitor	is ı	used in	the BO	o test.	Circle	the	appropriate	test.
*Indi	cate if	analy	sis is by	y MFN or MF	•		•					
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Date/Time	BOD's set up at source ]	lab: Date/Time	BOD's set up at DEQ	lab:
•	<del>-</del>	<del></del>		
Date/Time	FC's set up at source la	ab:bace/Time	FC's set up at DEQ	140.

Fill in your split sample results and mail to:

DEQ Lab 1712 SW 11th Ave. Portland, OR 97201 Attn: QA Chemist

NOTE - This form does not replace the "Request for Analysis" laboratory form.

PORTLAND, OR 97230 PHONE: (503) 254-1794 FAX: (503) 254-1452

Log #A900427-03 PO: Verbal John

Deoge

Koppers Co., Inc. 7540 NW St. Helens Rd. Portland, OR 97210-3663 Attention: John Oxford

Samples Received: 04/27/90

Sample ID:

- W-W-T-3 04/27/90 1100 hrs. - W-W-T-4 04/27/90 1100 hrs. - Oll 1311 DEG SOUNT 04/26/90 1030 hrs. 05/02/90 1225 hrs.

05/02/90 1225 hrs.

DETECTION PARAMETER LIMITS UNITS METHOD #2 011 & Grease EPA 413.2 0.2 mg/L EPA 42Q.1 0.05 Total Phenols 0.31 mg/L

Incorrectly coffected and preserved by an analysis considered as apposimate resul

Victor A. Perry

Quality Assurance

Technical Director

RJC/lws

This report is for the sole and exclusive use of the client. Samples are retained a maximum of 15 days from the report date, or until the maximum holding time expires.

Please Note: Outfall was resampled with Mr wifom of D.E. Q. These results will be reported when received ).a.offel

RECEIVED

MAY 1 8 1990

KOPPERS INDS., INC. PORTLAND, OR

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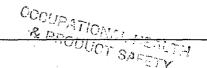
PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)  NAME KOPPES INDUSTRIADERS 7540 NW ST HELEN	es_inc			(2-16)	ARGE ELIMINATION		ES)			Form Approve OMB No. 204 Approval expi	ed. 10-0004
PORTLAND-OR-9721	•			0077-9 IT NUMBER		ARGE NUMBER	CORRECTED REP	ORT			4
FACILITY NW PLANT LOCATION MULTNOMAH COIN	YTY		FROM 90 (20-21)	MO D.	TO YEAR	MO DAY 5 1 28-29) (30-31)	$\frac{3077-J}{47430}$ NOTE: Read instruct	ions before	comp	leting this f	orm.
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FLOW	PERMIT REQUIREMENT		N/A								
TEMP	SAMPLE MEASUREMENT				56	56	56	°/F	0	2/30	GRAB
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OIL & GREASE	SAMPLE MEASUREMENT				O.'8	0.85	0.9	MG/	o	2/3Q	CRAR
Caraca agasa	PERMIT REQUIREMENT				0.10	10	15	L			G. W.
PHENOLS	SAMPLE MEASUREMENT			-	0.31	0.325	0.34	MG/	0	2/30	GRAB
	PERMIT REQUIREMENT					0.5	0.7	L (DDW)			
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Original (Pgh copy) attached with errors circled in red

Koppers Industries, Inc. 7540 N.W. Saint Helens Road Portland, OR 97210-3663

> Telephone: (503) 286-3681 FAX: (503) 285-2831

May 21, 1990

DEQ-Northwest Region 811 SW 6th Ave. Portland Oregon 97204

Dear Sir:

Attached is a correct DEQ Report that covers the period of Apr 1, 1990 to May 1, 1990.

We are enclosing a photo copy of the original sent to you with the typing errors circled in red.

We are very sorry for any inconvenience this may have caused.

Yours Truly.

John A. Oxford Plant Manager

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)  NAME KOPPERS INDIST ADDRESS 7540 NEW NW S	RIES INC _ T_HELENS_R		DISC		ITORING REPOR	(17-19)	OCCUP. & PRO	ATIONAL, DUCT SA	HE)	Form Approve OMB No. 204 Approvel expi	0-0004
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(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	ANALYSIS	(69-70)
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TYPED OR PRINTED	and 'or	maximum imprisonment of ejerence all attachment	f between 6 months and 5 y	rears.)		CER OR AUTHORIZ	ED AGENT AF	DE NUM	BER	YEAR N	NO DAY

GENERAL INSTRUCTIONS If form has been partially completed by preprinting, disregard instructions-directed at entry of that information already preprinted.

Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)

Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated. Enter each "PARAMETER" as specified in monitoring requirements of permit.

Enter "SAMPLE MEASUREMENT" data for each parameter under 'QUANTITY' and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipals with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".

Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.

Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".

Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week. "1/30" for one day per month, "1/90" for one day per quarter, etc.)

Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT." (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring etc.) monitoring, etc.) (FOLD HERE FIRST) 10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.

11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.

12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT." "TELEPHONE NUMBER" and "DATE" at bottom of form.

13. Mail signed Report to Office(s) by idate(s) specified in permit. Retain copy for your records.

14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s). specified in permit. LEGAL NOTICE This report is required by law (33 U.S.C. 1318: 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both, FOLD HEBE **AMATS** PLACE

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different) NAME / KOPPERS INDUST	RIES INC		.,,	(2-16)	TORING REPOR		0000 & Pp	ATION,	AL H	Form Approve OMB No. 204 Approval expir EALTH	id. 0-0004 res 9-30-85
ADDRÉSS 7540 NW ST HE 17 PORTLAND OR 88				0077-9		ARGE NUMBER	& P <sub>F</sub>	EG 18 1	OAF Čoš	ETY	
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PARAMETER		(3 Card Only) QU/ (46-53)	ANTITY OR LOADIN (54-61)	G	(4 Card Only) (38-45)	46-53)	(54-61)		NO.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	(64-68)	(69-70)
PLOW	SAMPLE MEASUREMENT	3000						ř	N/	6/ A 30	est
	PERMIT REQUIREMENT		N/A	,							
TEMP	SAMPLE MEASUREMENT				54	54	. 54		O	6/ 30	GRAB
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Ŧ.	PERMIT REQUIREMENT				6.0		9.0	su			
OIL & GREASE	SAMPLE MEASUREMENT				0	0.1	0,2	MG/L	0	6/ 30	GRAB
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PHENOLS	SAMPLE MEASUREMENT				0.09	0.105	0.12		0	6/ 30	GRAB
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- If form has been partially completed by preprinting, disregard instructions-directed at entry of that information already preprinted.

  Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)

  Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.

  Enter each, "PARAMETER" as specified in monitoring requirements of permit.

  Enter "SAMPLE MEASUREMENT" data for each parameter under 'QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." (NOTE to municipals with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under
- Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day
- Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".

  Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT," for continuous monitoring, "1/7" for ione day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.) a lenter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT." (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring and analysis used during monitoring period).
- monitoring, etc.)

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- WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED. ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.

  If "no discharge" occurs during monitoring period, enter "NO DISCHARGE across form in place of data entry.

  Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT." "TELEPHONE NUMBER" and "DATE" at bottom of form.

  Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.

  More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit. 14. specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318, 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil benalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

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PERMITTEE NAME / ADDRESS (In Facility Name / Location if different)  NAME / PPOS INC.  ADDRESS 75.4/1.5/1	<del>.sr.:ee-l</del>	s - ##	DISCHA				0000P/ & PRO NO	ATIONAL DDUCT SA		Form App OMB No. Expires 2- LTH	2040-0004
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FLOW	SAMPL MEASUREN	E 2903					· .		N/	6/31	EST
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Ors & GREASE	SAMPL MEASUREN				0.45	0.485	0.52		0	6/31	GRAH
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COMMENT AND EXPLANATION OF	ANY VIOLATION	NS (Réference all attai	chments here)		ē.						() e)

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PERMITTEE NAME /ADDRESS (Include

Facility Name/Location if different)
NAME KOPPERS INDUSTRIES INC

PORTLAND OR 97210

ADDRESS 7540 NW ST HELENS RO

FACILITY XMMXXNRWKHXRRWMXXX

LOCATION MULTNOMAH COUNTY

PARAMETER

(32-37)

**ELO**W

TEMP

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE NUMBER

10

(26-27) (28-29) (30-31).

MO DAY

(46-53)

AVERAGE

65

PERIOD

YEAR

3077 J

(54-61)

65

110

MAXIMUM

QUALITY OR CONCENTRATION

NOTE: Read instructions before completing this form.

UNITS

OF

DISCHARGE MONITORING REPORT (DMR)

MONITORING

DAY

TO

(4 Card Only)

(38-45)

MINIMUM

55

(2-16)

PERMIT NUMBER

(20-21) (22-23) (24-25)

GPD

UNITS

OR-100077-9

YEAR

89

FROM

(54-61)

MAXIMUM

n/a

3 Card Only) QUANTITY OR LOADING

(46-53)

3000

SAMPLE MEASUREMENT

PERMIT REQUIREMENT

SAMPLE

MEASUREMENT

PERMIT REQUIREMENT

AVERAGE

Form Approved

NO. FREQUENCY

EX ANALYSIS

6/30

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62-63) (64-68)

OMB No. 2040-0004 Expires 2-29-84

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

(17-19)

DISCHARGE NUMBER

(26.27) (28-29), (30-31)

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(46-53)

AVERAGE

PERIOD

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(4 Card Only)

(38-45)

MINIMUM

30771

(54-61)

MAXIMUM

QUALITY OR CONCENTRATION

DISCHARGE MONITORING REPORT (DMR)

MONITORING

DAY

OR-100077-9

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QUANTITY OR LOADING

(54-61)

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3 Card Only)

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PERMITTEE NAME/ADDRESS (Include

PORTLAND OREGON 97210

PARAMETER

(32-37)

FACILITY

Facility Name / Location if different)

KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD

LOCATION MULTIPOMAH COUNTY

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED

UNTIL SUPPLY IS EXHAUSTED

Form Approved

Expires 2-29-84

FREQUENCY

OF ANALYSIS

(62-63) (64-68)

NOTE: Read instructions before completing this form.

UNITS

NO.

OMB No. 2040-0004

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(69-70)

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15 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE NUMBER

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DISCHARGE MONITORING REPORT (DMR)

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PERMITTEE NAME/ADDRESS (Include

FACILITY

Facility Name Hocation it different TES INC.

ADDRESS 7540 NW ST HELENS RD

PORTLAND OR 97210-3663

CCUPATIOMB No. 2040-0004
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PERMITTEE NAME/ADDRESS (Incl.)  NAME KOPPERS INDUSTRI ADDRESS 7540 NW ST HEI PORTLAND OREGON	<u>LES_INC.</u> LENS_RD		OR-100		TORING REPOR	(17-19)	in the state of th		OMB N	pproved o. 2040-0004 2-29-84
FACILITY LOCATION MULTONAMAH (	COUNTY		FROM (20-21)		ORING PERIC AY TO YEAR 89 (26 27) (26 27)	MO DAYE	077 <u>7</u> 7430 OTE: Read instruct	lons before co	mpleting th	is form.
PARAMETER		(3 Card Only) QU. (46-53)	ANTITY OR LOADIN (54-61)		(4 Card Only) (38-45)	QUALITY OR CONC	ENTRATION (54-61)		FREQUENCE OF ANALYS	SAMPLE TYPE
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM		(64-68)	(69-70)
RAW FLOW	SAMPLE MEASUREMENT	3214						V,	2/28	EST
	PERMIT REQUIREMENT		N/A	GPD						
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JOHN A OXFORD PLANT MANAGER	IS TE NIFIC THE	MY INQUIRY OF THOSE INING THE INFORMATIO RUE, ACCURATE AND COANT PENALTIES FOR SPOSSIBILITY OF FINE AN	OMPLETE, I AM AWARE SUBMITTING FALSE INF ID IMPRISONMENT SEE	THAT THERE ORMATION, IF 18 U.S.C. § 1	NCLUDING	oli a	J & 2503	286=368	1 89	03 14
TYPED OR PRINTED	33 U.	S.C. § 1319. (Penalties und ir maximum imprisonment o	ler these statutes may in	clude fines up	to \$10.000	URE OF PRINCIPAL CER OR AUTHORIZE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A NUMBER	YEAR	MO DAY

GENERAL INSTRUCTIONS	CHEST NO.
O 1. If form has been partially completed by preprinting disregard instructions directed at entity of that inform 2. Enter TPI RMITTHE NAME MAILING, ADDRESS (and facility name/location, if different). PERMI NUMBER where indicated (A separate form is required for each discharge.)  3. Enter lates beginning and ending MONITORING PERIOD covered by form where indicated	
4. Enter each "PARAMETER, as specified in monitoring requirements of permit.  5. Enter SAMPLE MEASUREMENT data for each parameter under QUANTITY and QUALITY in "AVERAGE" is normally arithmetic liverage feeding to bacterial parameters), of all samp obtained during "MONITORING PERIOD." MAXIMUM" and "MINIMUM" are normally extreme to	de heasurements for each parameter
obtained during "MONITORING PERIOD." (NOTE) to municipals with secondary treatment requirement measurements under AVERAGE and enter maximum 7 day average of sample measurements obtained "MAXIMUM".  6. Enter TERRITT REQUIREMENT for each parameter under "OUANTITY" and "OUALITY" as specific	cfifer 302day Faverage of sample during months ring period under
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum average as appropriate) permit requirement for each parameter. If none, enter 10".  8. Enter period (OF ANALYSIS) both as SAMPLE MEASUREMENT (actual frequency of same monitoring period) and as PERMIT REQUIREMENT (Specified in permit (e.g. Enter "CONTA") for	t candyor mildfinum or 7-day mpling-and analysis used during continuous monitoring
"1/7" for one day per week. 1/30" for one day per month. 1/90" for one day per quarter, 9. Enter SAMPLE TYPE" both as SAMPLE MEASUREMENT: Lactual sample type used during monit "PERMIT REQUIREMENT" (e.g. Enter GRAB for individual sample 24HC for 24-hour composit monitoring jetc.)	etc)
10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS FARE REPORTED ATTACH A BRITE EXP	HANATION RODESCRIBE
CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE FACH VIOLATION BY DATE 11. If who discharge occurs during monitoring period tenter NO DISCHARC), across form in place of d 12. Enter I NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER with SIGNATURE OF PRINCIPAL AUTHORIZED AGENT. TELL PHONE NEXT BEILD ATE ALL BOTTOM of form 13. Mail signed Report to Officers) by date(s) specified in permit Retain convents, volumes or desired.	
h 13. Mail signed Report to Office(s) by date(s) specified in permit Retain copy for your records  14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMRs) formemay to specified in permit.	ne obtained (170m-Office s) (270m)
This report is required by law (31 U.S.C. 1348, 40 C.F.R. 125.273). Failure reservoir or failure to report until to exceed \$10.000 per day of violation, or in criminal penalties nor to exceed \$25.000 per day of violation or in criminal penalties nor to exceed \$25.000 per day of violation or in criminal penalties nor to exceed \$25.000 per day of violation or in criminal penalties nor to exceed \$25.000 per day of violation.	
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different) NAME KOPPERS COMPANY	INC.				HARGE ELIMINATION		<b>ES</b> )		Form App OMB No. Expires 2	2040-0004
ADDRESS 7540 N.W. S.			OR-1	000077	-9				9	
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LOCATION MULTUNAMAH	<u> </u>	_ <del> </del>	- FROM 8.9	(22-23) (24		2 1 28-29) (30-31)	NOTE: Read instruc	tions before co	mpleting this	form.
			ANTITY OR LOADIN		(4 Card Only)	QUALITY OR CO	NCENTRATION S		F 5	jat ja
PARAMETER ( <i>32-37</i> )		`(46-53)	(54-61)	· · · · · · · · · · · · · · · · · · ·	(38-45)	(46-53)	(54-61)	<del> </del>	O. PREQUENC	SAMPLE
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS (62	(64-68)	(69-70)
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Permit Number: Expiration Date: 11/30/92 File Number: 47430 Page 1 of 4 Pages

#### NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

#### WASTE DISCHARGE PERMIT

Department of Environmental Quality 811 S.W. Sixth Avenue, Portland, Oregon 97204 Telephone: (503) 229-5696

Issued pursuant to ORS 468.740 and The Federal Clean Water Act

ISSUED TO: (Koppers Industries, Inc.

Type of Waste

Outfall Location

Koppers Company, Inc. 7540 N.W. St. Helens Rd. Portland, OR 97229

Outfall Number

Tank Farm Runoff and Boiler Blowdown

SOURCES COVERED BY THIS PERMIT:

R.M. 6.5

PLANT TYPE AND LOCATION:

RECEIVING STREAM INFORMATION:

Creosote Terminal 7540 N.W. St. Helens Rd. Portland, Oregon

Major Basin: Willamette Minor Basin:

Receiving Stream: Willamette River

001

County: Multnomah

Applicable Standards: OAR 340-41-445

EPA REFERENCE NO: OR-000077-9

Issued in response to Application No. 200077-9 received July 19, 1984.

This Dermit is issued based on the land use findings in the permit record.

Fred Hansen, Director

JAN 08 1988

#### PERMITTED ACTIVITIES

Until this permit expires or is modified or revoked, the permittee is authorized to construct, install, modify or operate a waste water collection, treatment, control and disposal system and discharge to public waters adequately treated waste waters only from the authorized discharge point or points established in Schedule A and only in conformance with all the requirements, limitations, and conditions set forth in the attached schedules as follows:

Page Schedule A - Waste Discharge Limitations not to be Exceeded .. Schedule B - Minimum Monitoring and Reporting Requirements... Schedule C - Compliance Conditions and Schedules..... Schedule D - Special Conditions..... General Conditions.....

Each other direct and indirect waste discharge to public waters is prohibited.

This permit does not relieve the permittee from responsibility for compliance with any other applicable federal, state, or local law, rule, standard, ordinance, order, judgment, or decree.

Expiration Date: 11/30/92 File Number: 47430 Page 2 of 4 Pages

#### SCHEDULE A

1. Waste Discharge Limitations not to be Exceeded After Permit Issuance Date

Outfall Number 001

1	Concentr Monthly Ave.		
Oil & Grease Phenols	10 0.5	15 0.7	
Other Parameters	<u>L</u>	imitations	
pH Temperature	Shall be wi Shall not e	thin the range of 6.0-9.0 xceed 110° F	

2. Notwithstanding the effluent limitations established by this permit, no wastes shall be discharged and no activities shall be conducted which will violate Water Quality Standards as adopted in OAR 340-41-445 except in the following defined mixing zone:

The allowable mixing zone is defined as that portion of the Willamette River within 200 feet of the point of discharge.

Expiration Date: 11/30/92 File Number: 47430 Page 3 of 4 Pages

#### SCHEDULE B

Minimum Monitoring and Reporting Requirements (unless otherwise approved in writing by the Department)

Outfall Number 001

Item or Parameter	Minimum Frequency	Type of Sample
Flow /	Daily	Estimate
Temperature	Daily	Grab
PH	Daily	Grab
Oil & Grease	Weekly	Grab
Phenols 1	Monthly	Grab
Polynuclear Aromatic Hydrocarbons (PAH) 2	Annual	Grab

#### Reporting Procedures

Monitoring results shall be reported on approved forms. The reporting period is the calendar year. Reports must be submitted to the Department by January 15th of the following year.

<sup>1</sup> Test procedures for phenols should conform with Standard Methods No. 510, 16th edition.

<sup>2</sup> Test procedures for polynuclear aromatic hydrocarbons (PAH) should conform with EPA Method 610.

Expiration Date: 11/30/92 File Number: 47430 Page 4 of 4 Pages

#### SCHEDULE D

#### Special Conditions

- Sanitary wastes shall be disposed of to the City of Portland municipal sewage system.
- 2. An adequate contingency plan for prevention and handling of spills and unplanned discharges shall be in force at all times. A continuing program of employee orientation and education shall be maintained to ensure awareness of the necessity of good inplant control and quick and proper action in the event of a spill or accident.
- 3. No emulsifying agents or detergents shall be discharged into or otherwise be allowed to enter into the oil-water separator.
- 4. Thirty days following the issuance of the permit, the permittee shall initiate sampling of polynuclewar aromatic hydrocarbons (PAH) as required in Schedule B. Upon review of the data, the Department may change the phenol limits to PAH of this permit in accordance with procedures in OAR 340-45-055.

P47430.W (1)

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#### PORTLAND, OREGON

BUREAU OF ENVIRONMENTAL SERVICES

Earl Blumenauer, Commissioner John Lang, Administrator 1120 S.W. 5th, Rm. 400 Portland, Oregon 97204-1972 (503) 796-7740 FAX: (503) 796-6995

June 26, 1990

07/06/1990

Mr. John Oxford Koppers Industries 7540 NW St. Hellens Rd. Portland, Or. 97210

OCCUPATIONAL HEALTH

Dear Mr. Oxford:

Portland, like other municipalities, is required under the federal Clean Water Act to maintain a current list of all non-domestic sewer users. In order to comply with this requirement the City periodically surveys all non-domestic dischargers to the publicly owned treatment works (POTW). Information obtained through these surveys is a critical first step in the identification of industrial users of specific interest as outlined by the federal regulations.

Enclosed is a general Industrial User Survey (IUS). Please provide the information that applies to your business and return by the date indicated. Once the City has reviewed your IUS you will be contacted by an Industrial Waste Section representative who will schedule a site inspection. The IUS and the inspection report will be the basis of your firm's initial classification in the City's program.

Thank you for your cooperation with the City of Portland in the implementation of our Industrial Pretreatment Program.

If you have any questions about the City's Industrial Monitoring Program, or on the completion of the survey, please call me at: *(503) 796-7568* 

Sincerely,

Miquel A. Santana

Environmental Services Industrial Wastewater Technician

> 5 1990 JUL

RECEIVED

cc. HGE TEB file

KOPPERS INDS., INC. PORTLAND, OR

Bill Gaffi

**Business Operations** Bob Rieck 796-7133

Wastewater Treatment Ross Peterson 285-0205

Customer/Employee Affairs Karen Kramer 796-7062

# CITY OF PORTLAND BUREAU OF ENVIRONMENTAL SERVICES INDUSTRIAL WASTE SECTION

### INDUSTRIAL/COMMERCIAL SEWER USE SURVEY

BUSINESS DESCRIPTION:  Please provide a brief description of manufacturing or service related activity on premises, to include Standard Industrial Classification	NOTUCC NAME.	KOPPERS INDUSTRIES	TNC	
PORTLAND OR 97210  BUSINESS DESCRIPTION:  Please provide a brief description of manufacturing or service related activity on premises, to include Standard Industrial Classification (SIC) and principal raw materials and products.  SIC # 2865 PRINCIPAL PRODUCTS HANDLED COAL TAR CREOSOTE COAL TAR PITCH REFINED TAR. THIS LOCATION IS A TERMINAL OPERATION THERE IS NO WASTE WATER OR PRODUCTS GENERATED. NO TO MANUFACTURING OPERATION. STORM WATER RUN OFF DISCHARGE UNDER N.P.D.E.S. PERMIT.  Do you discharge any waste or wastewater, directly or indirectly, other than sanitary wastes to the City of Portland sewage collection system:  YES NO X  If your answer to the above question is YES describe the waste discharged and include specific chemical components.	Business name:_	ROPPERS INDUSTRIES	TINC MARKET TO	·
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Signature and Title of Responsible Offical

7-10-90

# Koppers003631

PORTLAND BRANCH

12423 NE Whitaker Way

(503) 254-1794 FAX: (503) 254-1452

Portland, OR 97230

## COFFEY LABORATORIES, INC.

CHAIN OF CUSTODY AGREEMENT

**PENDLETON BRANCH** 287 SE First Pendleton, OR 97801 (503) 276-0385

Report Attention: AMAGE KAMALENI Company Name: KOPPLUS INC.  Address: 75THO ALLIST H-GARA  FOLLHAM OR 972HO-3463  Phone: (503) 286-3686 FAX: (503) 285-2831  Report Instructions:		d. Fee)	☐ FAX ☐ Verb	(T-35) als (T-1157) Report Copy s Associated)	(T-1402)	FOR LABORATORY Job Number: /// Custabbr: VISA M/C Ex Card #: Cash / Check: \$ Billing Code: 1 QC LEVEL: 1 FEDX BUS COU	2 3 4 2 3 4	Page	of ⊟NEW
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#### COFFEY LABORATORIES. INC CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS

#### INSTRUCTIONS

All shaded areas are for laboratory use only. Please Do Not Write in These Ar FOR LAB USE ONLY

REPORT ATTENTION Name of the person who receives the laboratory report.

COMPANY NAME -Name of the company or individual requesting the analysis.

REPORT ADDRESS Address of the company or individual requesting the analysis. (Address where report should be mailed

A brief description of any special mail instructions, or address information pertaining REPORT INSTRUCTIONS

copies.

Applies to customer project name. This data is provided at the customer sediscretion PROJECT NAME

PROJECT NUMBER -Applies only to samples submitted by the customer. This data is provided at the customer's discretion.

A short description of the sample point (e.g., Effluent from sand filter). This description will FIELD ID -

appear on the report.

The date on which the sample(s) was/were collected. COLLECTION DATE

The time at which the sample(s) was were collected. COLLECTION TIME -

This is a description of the sample media (e.g., drinking water, waste water, soil, etc.) MEDIA -

Use one line for each analysis of group of analyses associated to a specific bottle. ANALYSIS REQUESTED

The person who collected the sample(s) signs here. SAMPLE COLLECTED BY

The sampler signs this box with he/she gives the sample to someone else, and then fills in the RELINQUISHED BY -

date/time the sample left his/her possession.

The person who receives the sample(s) signs here and fills in the date/time received. The date and time should be same as Relinquished by juness the sample(s) was/were shipped. RECEIVED BY

JOB OR SAMPLE REMARKS General sample or job femarks.

#### CONDITIONS

#### PRICING AND CHARGES

Prices to be charged for work performed for CLIENT are those currently published in the Coffey Laboratories, Inc. (CLI) standard pricebook. CLIENT must notify CLI of price quotation at the time of the transfer of sample(s) to CLI. All submissions of samples with testing requirements to CEI will be understood to be an agreement for services. Any cancellation of testing requirements will result in charges being assessed on all testing completed prior to the notice of cancellation.

#### DELIVERY AND LEABILITY LIMITATIONS ...

CLI will analyze samples provided by CLIENT as requested by CLIENT in accordance with the procedures documented in the CLI Quality Assurance Plan (QAP). The maximum total tradition assumed by CLI for work performed for CLIENT will in all cases be limited to the cost of the analysis. The specific formation that deliverable goods will be defined by CLIENT to CLI upon transfer of the samples to CLI. This warranty supersedes all other warrantie

#### CONFIDENTIALITY

CLI will use its best efforts to treat all information regarding work performed for OLIENT as proprietary and confidential to the maximum extent allowed by law. NO CLIENII information will be released without the written consent of the CLIENI billed for the

#### APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIBM will be construed and interpreted in accordance with the laws for the



Amos S. Kamerer
Plant Manager

Koppers Industries, Inc. 7540 N.W. St. Helens Road Portland, OR 97210-3663

> Telephone: 503-286-3681 Fax: 503-285-2831

February 9, 1995

Mr. Elliot Zais Oregon Department of Environmental Quality 2020 SW Fourth Ave. #400 Portland, OR 97201

Reference: NPDES-DMR January 1995

Dear Mr. Zais:

Enclosed please find an amended DMR for January. One discharge and the related analysis information was accidently omitted in the original report that was dated 2/2/95. Only the flow and oil and grease information was affected by this omission and no violation resulted.

Sincerely

Kmos S. Kamerer Plant Manager

Please accept my apology for this error.

Koppers003633

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#### MONTHLY NPDES DISCHARGE REPORT WORK SHEET

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#### MONTHLY NPDES DISCHARGE REPORT WORK SHEET

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Attention: John Oxford Koppers Industry 7540 NW St. Helens Rd. Portland, OR 97210-3663 Report Date: January 17, 1995

Job Number: 950113B

PO Number: None Provided Project No: None Provided Project Name: None Provided

#### Analytical Narrative

The samples were received on 01/13/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
950113B-1	WWT 1,3,5 Composite	Waste Water	01/13/95	1000
950113B-2	WWT 2,4 Composite	Waste Water	01/13/95	1000

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Rona A. Klueh Technical Director

RAK/atc



#### **Analytical Data**

Koppers Industry

Job Number: 950113B Page Number: 2 of 3

Lab Sample ID: 950113B-1

Field ID: WWT 1,3,5 Composite

Date/Time: 01/13/95 1000 Matrix: Waste Water

EPA Category: Conventional Parameters

		Detection	n Analytical		Analysis	
Parameter	Method	Limit	Result	Units	Date	Analyst
Oil & Grease	EPA 413.1	3.	16.	mg/L	01/16/95	WKK
Oil & Grease (Duplicate)	EPA 413.1	4.	ND	mg/L	01/20/95	WKK
Total Phenols	EPA 420.1	0.05	0.11	mg/L	01/13/95	SVS

The duplicate oil & grease analysis was performed on the CuPO4 preserved bottle.



#### **Analytical Data**

Job Number: 950113B Page Number: 3 of 3

Lab Sample ID: 950113B-2

Field ID: WWT 2,4 Composite

Date/Time: 01/13/95 1000 Matrix: Waste Water

EPA Category: Conventional Parameters

		Detection	Analytical		Analysis	
Parameter	Method	Limit	Result	Units	Date	Analyst
Oil & Grease	EPA 413.1	3.	5.	mg/L	01/16/95	WKK
Total Phenols	EPA 420.1	0.05	0.11	mg/L	01/13/95	SVS

# RECEIVED

JAN 2 4 1995 KOPPERS INDS., INC. PORTLAND, OR PA TEMP PN 6-6 2 11 6.7 4

NOT REPORTED IN DESCRIPTION BY ERROR - REPORTING IN JANUARY 95

# Koppers003645

PORTLAND BRANCH 12423 NE Whitaker Way

(503) 254-1794 FAX: (503) 254-1452

Portland, OR 97230

#### COFFEY LABORATORIES, INC. CHAIN OF CUSTODY AGREEMENT

PENDLETON BRANCH 287 SE First Pendleton, OR 97801 (503) 276-0385

Report Attention: Amos Kamerer Company Name: Koffers Ind Address: 2540 Nu St. Helens 12D	Project Name: Project Number: PO Number:					FOR LABORATORY USE ONLY  Job Number: 1/1/2/1//  Constabbri	775+	-	
Poltand ov. 97210-3663  Phone: (503) 186-3681 FAX: (503) 185-1831  Report Instructions:	Sample Turn  Standard  Priority (1.5x St  Rush (2x Std. Fe	Sample Turnaround Reporting Request			(T-1402) Card #:  Cash / Check: \$  Billing Code: 1 2 3 4  QC LEVEL: 1 2 3 4			f:	
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SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

### COFFEY LABORATORIES, INC. CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

#### INSTRUCTIONS

FOR LAB USE ONLY - All shaded areas are for laboratory use only. Please Do Not Write in These Areas.

**REPORT ATTENTION** - Name of the person who receives the laboratory report.

COMPANY NAME - Name of the company or individual requesting the analysis.

REPORT ADDRESS - Address of the company or individual requesting the analysis. (Address where report should be mailed)

REPORT INSTRUCTIONS - A brief description of any special mail instructions, or address information pertaining to extra report

copies.

**PROJECT NAME** - Applies to customer project name. This data is provided at the customer's discretion.

PROJECT NUMBER - Applies only to samples submitted by the customer. This data is provided at the customer's discretion.

FIELD ID - A short description of the sample point (e.g., "Effluent from sand filter"). This description will

appear on the report.

COLLECTION DATE - The date on which the sample(s) was/were collected.

COLLECTION TIME - The time at which the sample(s) was/were collected.

MEDIA - This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)

ANALYSIS REQUESTED - Use one line for each analysis or group of analyses associated to a specific bottle.

SAMPLE COLLECTED BY - The person who collected the sample(s) signs here.

RELINOUISHED BY - The sampler signs this box when he/she gives the sample to someone else, and then fills in the

date/time the sample left his/her possession.

RECEIVED BY:

The person who receives the sample(s) signs here and fills in the date/time received. The date and

time should be same as "Relinquished by" unless the sample(s) was/were shipped.

IOB OR SAMPLE REMARKS - General sample or job remarks.

#### CONDITIONS

#### PRICING AND CHARGES

Prices to be charged for work performed for CLIENT are those currently published in the Coffey Laboratories, Inc. (CLI) standard pricebook. CLIENT must notify CLI of price quotation at the time of the transfer of sample(s) to CLI. All submissions of samples with testing requirements to CLI will be understood to be an agreement for services. Any cancellation of testing requirements will result in charges being assessed on all testing completed prior to the notice of cancellation.

#### DELIVERY AND LIABILITY LIMITATIONS

CLI will analyze samples provided by CLIENT as requested by CLIENT in accordance with the procedures documented in the CLI Quality Assurance Plan (QAP). The maximum total liability assumed by CLI for work performed for CLIENT will in all cases be limited to the cost of the analysis. The specific format of the deliverable goods will be defined by CLIENT to CLI upon transfer of the samples to CLI. This warranty supersedes all other warranties.

#### CONFIDENTIALITY

CLI will use its best efforts to treat all information regarding work performed for CLIENT as proprietary and confidential to the maximum extent allowed by law. NO CLIENT information will be released without the written consent of the CLIENT billed for the work.

#### APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.



Attention: Amos Kamerer

Koppers Industry

7540 NW St. Helens Rd. Portland, OR 97210-3663

Report Date: December 30, 1994

Job Number: 941228F

PO Number: Amos Kamerer Project No: None Provided Project Name: None Provided

#### **Analytical Narrative**

The samples were received on 12/28/94 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
941228F-1	WWT #1	Waste Water	12/27/94	1500
941228F-2	WWT #2	Waste Water	12/27/94	1500
941228F-3	WWT #3	Waste Water	12/27/94	1500
941228F-4	WWT #4	Waste Water	12/27/94	1500

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Susan M. Coffey

President

SMC/atc



#### **Analytical Data**

Koppers Industry

Job Number: 941228F Page Number: 2 of 5

Lab Sample ID: 941228F-1

Field ID: WWT #1

Date/Time: 12/27/94 1500 Matrix: Waste Water

EPA Category: Conventional Parameters

		Detection	Analytical		Analysis	
Parameter	Method	Limit	Result	Units	Date	Analyst
Oil & Grease	EPA 413.1	3.	3.	mg/L	12/29/94	WKK
Total Phenols	EPA 420.1	0.05	0.07	mg/L	12/29/94	SVS



#### **Analytical Data**

Job Number: 941228F Page Number: 3 of 5

Lab Sample ID: 941228F-2

Field ID: WWT #2
Date/Time: 12/27/94 1500
Matrix: Waste Water

EPA Category: Conventional Parameters

		Detection	Analytical		Analysis	
Parameter	Method	Limit	Result	Units	Date	Analyst
Oil & Grease	EPA 413.1	3.	ND	mg/L	12/29/94	WKK
Total Phenols	EPA 420.1	0.05	0.05	mg/L	12/29/94	SVS

ND means none detected at or above the detection limit listed.



#### **Analytical Data**

Job Number: 941228F Page Number: 4 of 5

Lab Sample ID: 941228F-3

Field ID: WWT #3
Date/Time: 12/27/94 1500
Matrix: Waste Water

EPA Category: Conventional Parameters

		Detection	Analytical		Analysis	
Parameter	Method	<u>Limit</u>	Result	Units	Date	<u>Analyst</u>
Oil & Grease	EPA 413.1	3.	3.	mg/L	12/29/94	WKK
Total Phenols	EPA 420.1	0.05	ND	mg/L	12/29/94	SVS

ND means none detected at or above the detection limit listed.



#### **Analytical Data**

Job Number: 941228F Page Number: 5 of 5

Lab Sample ID: 941228F-4

Field ID: WWT #4

Date/Time: 12/27/94 1500

Matrix: Waste Water

EPA Category: Conventional Parameters

		Detection	Analytical		Analysis	
Parameter	Method	Limit	Result	Units	Date	Analyst
Oil & Grease	EPA 413.1	3.	ND	mg/L	12/29/94	WKK
Total Phenols	EPA 420.1	0.05	ND	mg/L	12/29/94	SVS

ND means none detected at or above the detection limit listed.

# **RECEIVED**

JAN 0 3 1995 KOPPERS INDS., INC. PORTLAND, OR



Telephone: 503-286-3681 Fax: 503-285-2831

January 12, 1995

Amos S. Kamerer Koppers Industries Inc. 7540 N.W St. Helens Rd. Portland, OR 97210

Dear Sir,

On January 9, 1995 I came in at 6:30 a.m. to start plant operations. Upon doing a full-plant walk through inspection. I found the lower tank farm flooding, all waste water tanks overflowing and rain still falling.

If this situation continues, we are in danger of losing pumps and equipment and a possible shutdown of operations. I started pumping the overflow of rainwater directly to the plant outfall. At this time, we also sampled all waste water tanks and requested rush analysis.

Sincerely,

T.J. Turner

General Foreman

TJT:crt

1-27-9\$ PI+	Tent Hamilton and State of
WWT2 6.5	53°
WWT4 6.4	530

# Koppers003655

## COFFEY LABORATORIES, INC. CHAIN OF CUSTODY AGREEMENT

PORTI AND BRANCH
12423 NE Whitaker Way
Portland, OR 97230
(503) 254-1794 FAX: (503) 254-1452

PENDLETON BRANCH 287 SE First Pendleton, OR 97801 (503) 276-0385

Report Attention: AMOS KaMER-ER Company Name: FOFPENS ING  Address: 2540 Nwst. Helens RD. Posttand, CR, 97210-3663  Phone: 503, 286-3681 FAX: (503) 285-28  Report Instructions:	Project Name: Project Number:  PO Number:  Sample Turnaround  Standard  Priority (1.5x Std. Fee)  Rush (2x Std. Fee)  Emergency (3x Std. Fee	☐ FAX (T-35 ☐ Verbals (T- ☐ Extra Repo (Fees Asso	-1157) art Copy (T-1402) ociated)	FOR LABORATORY USE ONLY  Job Number:  Custabbr:  Custabbr:  Card #:  Cash / Check: 5  Billing Code: 1 2 3 4  QC LEVEL: 1 2 3 4  FEDX BUS COURTER UPS	>	
Sample ID	Loc. ID Da	Collection Me	edia	Analysis Requested		Test/Profile
wat 2,4 composin	·e 1-27	29 3 9 m	01	il & Grease		
Sample Comments:	1-47	-95 3 5m		DHenols		
Sampled by: (Please Print)	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
Brouf Harwood	rad Natwood	1-77-94		Aldor Fake	1-22.95	320
White Copy - Laboratory Copy Yellow Copy - Client Copy SHADED AREAS FOR LABORATORY USE ONLY	Eldon Falm	1-27-95	4:00pm	· Vmy A	1211	Thou

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

# COFFEY LABORATORIES, INC. CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

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TOR LAB USE ONLY - All shaded areas are for laboratory use only. Please Do Not Write in These Areas.

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REPORT ADDRESS - Address of the company or individual requesting the analysis. (Address where report should be mailed)

REPORT INSTRUCTIONS - A brief description of any special mail instructions, or address information pertaining to extra report.

copies.

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PROJECT NUMBER - Applies only to samples submitted by the customer. This data is provided at the customer's discretion.

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COLLECTION TIME - The time at which the sample(s) was/were collected.

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ANALYSIS REQUESTED - Use one line for each analysis or group of analyses associated to a specific boule.

SAMPLE COLLECTED BY - The person who collected the sample(s) signs here.

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#### CONDITIONS

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#### APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.



DOC ID: 0:\Clom\Port.BRN\OFFSUFP.SEC\Forms\Fax.LOB Revision #: 1.03 Revision Date: 09/06/94

# FACSIMILE TRANSMITTAL LOG

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Attention: Amos Kamerer

Koppers Industry

7540 NW St. Helens Rd. Portland, OR 97210-3663

Report Date: January 31, 1995

Job Number: 950127AC
PO Number: Amos Kamerer
Project No: None Provided
Project Name: None Provided

### **Analytical Narrative**

The sample was received on 01/27/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
950127AC-1	WWT 2,4 Composite	Waste Water	01/27/95	1500

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Rona A. Klueh Technical Director

RAK/atc

RECEIVED

FEB - 3 1995

KOPPERS INDS., INC. PORTLAND. OR

COFFEY LABORATORIES, INC.



## **Analytical Data**

Koppers Industry

Job Number: 950127AC

Page Number: 2 of 2

Lab Sample ID: 950127AC-1

Field ID: WWT 2,4 Composite

Date/Time: 01/27/95 1500 Matrix: Waste Water

EPA Category: Conventional Parameters

		Detection	Analytical		Analysis	
Parameter	Method	Limit	Result	Units	Date	<u>Analyst</u>
Oil & Grease	EPA 413.1	3.	4.	mg/L	01/31/95	WKK
Total Phenols	EPA 420.1	0.05	0.25	mg/L	01/30/95	SVS

# RECEIVED

FEB - 3 1995

KOPPERS INDS., INC. PORTLAND, OR

**COFFEY LABORATORIES, INC.** 

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# MONTHLY NPDES DISCHARGE REPORT WORK SHEET

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# Koppers003663

PORTLAND BRANCH

12423 NE Whitaker Way

(503) 254-1794 FAX: (503) 254-1452

Portland, OR 97230

## COFFEY LABORATORIES, INC. CHAIN OF CUSTODY AGREEMENT

PENDLETON BRANCH 287 SE First Pendleton, OR 97801 (503) 276-0385

Report Attention: AMOS Kamer-eR Company Name: KOPPerS  Address: 2540 Nw Stakerens R Portland OR 97210-3663  Phone: (503) 286-3861 FAX: (503) 285-23  Report Instructions:	831	Project Name: Project Number: PO Numb  San  Standa  Priorit Rush (  Emerg	er:nple Turn rd y (1.5x St	d. Fee)	☐ FAX ☐ Verb ☐ Extra	Reporting Ro (T-35) als (T-1157) a Report Copes Associated	oy (T-1402) d)	FOR LABORATORY USE ONLY Joh Number: // / / / / / / / / / / / / / / / / /	320-I	
Sample ID		Loc.	ID	Collec Date /	ction Time	Media		Analysis Requested		Test/Profile
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SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

# COFFEY LABORATORIES, INC. CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

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COLLECTION TIME - The time at which the sample(s) was/were collected.

MEDIA - This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)

ANALYSIS REQUESTED - Use one line for each analysis or group of analyses associated to a specific bottle.

SAMPLE COLLECTED BY - The person who collected the sample(s) signs here.

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#### APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.



Report Date: March 22, 1995

Job Number: 950320I PO Number: None

Project No: None Provided Project Name: None Provided

Amos Kamerer Koppers Industry 7540 NW St. Helens Rd. Portland, OR 97210

### **Analytical Narrative**

The samples were received on 03/20/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix		Collection Date	Collection Time
950320I-1	WWT 2,4,6	 Waste Water	/	03/20/95	0945
950320I-2	WWT 1,3,5	 Waste Water		03/20/95	0945

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,
Annalllus

Rona A. Klueh Technical Director

RAK/atc



## **Analytical Data**

Koppers Industry

Job Number: 950320I

Page Number: 2 of 3

Lab Sample ID: 950320I-1 Field ID: WWT 2,4,6 Date/Time: 03/20/95 0945 Matrix: Waste Water

EPA Category: Conventional Parameters

•		Detection	Analytical	•	* * * * * * * * * * * * * * * * * * *	
Parameter	Method	Limit	Result	Units	Date	Analyst
Oil & Grease	EPA 413.1	3.	4.	mg/L	03/20/95	SSS
Total Phenols	FPA 420.1	0.05	<sup>-</sup> 0.10	mg/L	03/20/95	SVS



## **Analytical Data**

Koppers Industry

Job Number: 950320I

Page Number: 3 of 3

Lab Sample ID: 950320I-2
Field ID: WWT 1,3,5
Date/Time: 03/20/95 0945
Matrix: Waste Water

EPA Category: Conventional Parameters

		Detection	Analytical		Analysis	,* · · · · · · · · · · · · · · · · · · ·
Parameter	Method	Limit	Result	Units	Date	Analyst
Oil & Grease	EPA 413.1	3.	7.	mg/L	03/20/95	SSS
Total Phenols	EPA 420.1	0.05	0.06	mg/L	03/20/95	SVS

# **RECEIVED**

MAR 28 1995

KOPPERSINDS, INC. PORTLAND, OR

3/9/95 T2-4-6 52°F pH 6.7

# Koppers003670

PORTLAND BRANCH

12423 NE Whitaker Way

(503) 254-1794 FAX: (503) 254-1452

Portland, OR 97230

## COFFEY LABORATORIES, INC. CHAIN OF CUSTODY AGREEMENT

PENDLETON BRANCH 287 SE First Pendleton, OR 97801 (503) 276-0385

Report Amos Kamever Company Name: Koppers Industries Inc- Address: 7540 NW St Helens Road Portland, OR 97210 Phone: (503) 286-3681 FAX: (503) 285-2831 Report Instructions:	Project Name: Project Number: PO Number:  Sample Turnar  Standard  Priority (1.5x Std.  Rush (2x Std. Fee)  Emergency (3x Std.	Fee) Uerb	Reporting Request (T-35) als (T-1157) a Report Copy (T-1es Associated)	Card #:Cash / Check; \$	#:
Sample ID	Loc. ID	Collection Date / Time	Media	Analysis Requested	Test/Profile
WWT 2-4-6 composite  WWT 2-4-6 composite  Sample Comments:	g.	3/9/95 8:30	H Cl	phenols  Oiland grease	
Sampled by: (Please Print)	Relinquished by: (Please S			Received by: (Sign)	Date Time
White Copy - Laboratory Copy Yellow Copy - Client Copy SHADED AREAS FOR LABORATORY USE ONLY	"Rollin	3. 9	95 9:K	LAB CHESTES MULLINE	3/2/5

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copies

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PROJECT NUMBER - Applies only to samples submitted by the customer. This data is provided at the customer's discretion.

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COLLECTION TIME - The time at which the sample(s) was/were collected.

MEDIA - This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)

ANALYSIS REQUESTED - Use one line for each analysis or group of analyses associated to a specific bottle.

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JOB OR SAMPLE REMARKS - General sample or job remarks.

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#### APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.



Amos Kamerer Koppers Industry 7540 NW St. Helens Rd. Portland, OR 97210 Report Date: March 14, 1995

Job Number: 950309D

PO Number: Verbal - Amos Kamerer

Project No: None Provided Project Name: None Provided

## **Analytical Narrative**

The sample was received on 03/09/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory			Collection	Collection
Sample ID	Field Identification	Matrix	Date	Time
950309D-1	WWT 2-4-6 Composite	Waste Water	03/09/95	0830

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

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Sincerely,

Rona A. Klueh Technical Director

RAK/atc



## **Analytical Data**

Koppers Industry

Job Number: 950309D

Page Number: 2 of 2

Lab Sample ID: 950309D-1

Field ID: WWT 2-4-6 Composite

Date/Time: 03/09/95 0830 Matrix: Waste Water

EPA Category: Conventional Parameters

		Detection	n Analytical		Analysis
Parameter	Method	Limit	Result	Units	Date Analyst
Oil & Grease	EPA 413.1	3.	ND	mg/L	03/09/95 SSS
Total Phenols	EPA 420.1	0.05	ND	mg/L	03/10/95 SVS

ND means none detected at or above the detection limit listed.

# RECEIVED

MAR 1 6 1995

KOPPERS INDS., INC. PORTLAND, OR 3/8/95 5/1-F ph 6.7 T 1-3-5

# Koppers003676

PORTLAND BRANCH

12423 NE Whitaker Way

(503) 254-1794 FAX: (503) 254-1452

Portland, OR 97230

# COFFEY LABORATORIES, INC.

CHAIN OF CUSTODY AGREEMENT

PENDLETON BRANCH 287 SE First Pendleton, OR 97801 (503) 276-0385

Report Attention: Armos Kamerer Company Name: Koppers Fndustries Inc Address: 7540 NW St Helens Rd Portland OR 97215 Phone: (503) 286-3681 FAX: (503) 285-2831 Report Instructions:	PO Number:    Sample Turnaround   Reporting Request   IVISA   M/C Expires;   Card #:     Priority (1.5x Std. Fee)   Verbals (T-1157)   Extra Report Copy (T-1402)   (Fees Associated)   Emergency (3x Std. Fee)   Initials:   FEDX BUS COURIER UPS LAN						•				
Sample ID	Loc.	ID	Colle Date /	ction Time	Media			Ar	alysis Requested		Test/Profile
WWT 1, 3, 5 Composite			3/8/95	8:15			Oil	1 G	rease	,	
Sample Comments:			3/8/95	8:15			Ph	enols		:	
Sampled by: (Please Print)	Relinquished l	y: (Please	Sign)	Da	te	Time		A Receip	yea by: (Sign)	Date	Time
10 Turver o	7/10			3.8	3-895 8:30			Medil	h	3-8-95	8:30
White Copy - Laboratory Copy Yellow Copy - Client Copy SHADED AREAS FOR LABORATORY USE ONLY	WA AM	M.		38	95	<b>9</b> 05 1		Suela	Bullion	/	

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

# COFFEY LABORATORIES, INC. CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

#### INSTRUCTIONS

FOR LAB USE ONLY - All shaded areas are for laboratory use only. Please Do Not Write in These Areas.

REPORT ATTENTION - Name of the person who receives the laboratory report.

COMPANY NAME - Name of the company or individual requesting the analysis.

REPORT ADDRESS - Address of the company or individual requesting the analysis. (Address where report should be mailed)

REPORT INSTRUCTIONS - A brief description of any special mail instructions, or address information pertaining to extra report

copies.

PROJECT NAME - Applies to customer project name. This data is provided at the customer's discretion.

PROJECT NUMBER - - Applies only to samples submitted by the customer. This data is provided at the customer's discretion.

FIELD ID - A short description of the sample point (e.g., "Effluent from sand filter"). This description will y

appear on the report.

COLLECTION DATE - The date on which the sample(s) was/were collected.

COLLECTION TIME - The time at which the sample(s) was/were collected.

MEDIA - This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)

ANALYSIS REQUESTED - Use one line for each analysis or group, of analyses associated to a specific bottle.

SAMPLE COLLECTED BY - The person who collected the sample(s) signs here.

RELINQUISHED BY - The sampler signs this box when he/she gives the sample to someone else, and then fills in the

date/time the sample left his/her possession.

RECEIVED BY - The person who receives the sample(s) signs here and fills in the date/time received. The date and

time should be same as "Relinquished by" unless the sample(s) was/were shipped.

JOB OR SAMPLE REMARKS - General sample or job remarks.

#### CONDITIONS

#### PRICING AND CHARGES

Prices to be charged for work performed for CLIENT are those currently published in the Coffey Laboratories, Inc. (CLI) standard pricebook. CLIENT must notify CLI of price quotation at the time of the transfer of sample(s) to CLI. All submissions of samples with testing requirements to CLI will be understood to be an agreement for services. Any cancellation of testing requirements will result in charges being assessed on all testing completed prior to the notice of cancellation.

#### DELIVERY AND LIABILITY LIMITATIONS

CLI will analyze samples provided by CLIENT as requested by CLIENT in accordance with the procedures documented in the CLI Quality Assurance Plan (QAP). The maximum total liability assumed by CLI for work performed for CLIENT will in all cases be limited to the cost of the analysis. The specific format of the deliverable goods will be defined by CLIENT to CLI upon transfer of the samples to CLI. This warranty supersedes all other warranties.

#### CONFIDENTIALITY.

CLI will use its best efforts to treat all information regarding work performed for CLIENT as proprietary and confidential to the maximum extent allowed by law. NO CLIENT information will be released without the written consent of the CLIENT billed for the work

#### APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.



Amos Kamerer Koppers Industry 7540 NW St. Helens Rd. Portland, OR 97210 Report Date: March 10, 1995

Job Number: 950308D

PO Number: Verbal - Amos Kamerer

Project No: None Provided Project Name: None Provided

### **Analytical Narrative**

The sample was received on 03/08/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	,	Collection Date	Collection Time
950308D-1	WWT 1,3,5 Composite	Waste Water		03/08/95	0815

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Noral Chul

Rona A. Klueh
Technical Director

RAK/atc



## **Analytical Data**

Koppers Industry

Job Number: 950308D Page Number: 2 of 2

Lab Sample ID: 950308D-1

Field ID: WWT 1,3,5 Composite Date/Time: 03/08/95 0815

Matrix: Waste Water

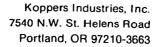
EPA Category: Conventional Parameters

•	+ <b>t</b>	Detection Analytic	al	Analysis	
Parameter	Method	Limit Result	Units	Date	Analyst
Oil & Grease	EPA 413.1	3. 6.	mg/L	03/08/95	SSS
Total Phenols	EPA 420.1	0.05 0.16	mg/L	03/08/95	SVS

# RECEIVED

MAR 1 5 1995

KOPPERS INDS., INC. PORTLAND, OR





Telephone: 503-286-3681 Fax: 503-285-2831

8 March, 1995

Amos S. Kamerer, Plant Manager Koppers Industries, Inc. 7540 NW St Helens Road Portland, OR 97210

Dear Sir:

On March 8, 1995 at 4:00 p.m. I did a walk through of plant operations. I found the lower tank farm flooding, all waste water tanks overflowing, and rain still falling.

If this situation continues, we are in danger of losing pumps and equipment, and a possible shutdown of operations. We started pumping the overflow of rainwater directly to the plant outfall. We at this time also sampled all waste water tanks and requested rush analysis.

Sincerely,

7. J. Turner General Foreman

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PORTLANCY, OR 97210  PACILITY Northwest Plant OCATION Multnomah Count  PARAMETER (32-37)	DEO #47430				L003		1	11			Form Appro	ved.		
OCATION Multnomah Count PARAMETER			PERMIT NUMBER				DIS	HARGE NUMBE		7-j	OMB No. 2040-0004 Approval expires 10-31-94			
OCATION Multnomah Count PARAMETER			<del>-</del>		MONI	TORIN	G PERI	OD	$\sqrt{474}$	30	Approval ex	pires	10-31-94	•
PARAMETER	<del>~</del>		- FROM	YEAR		AY TO	YEAR 95	MO DAY	7					
			_		11 0 (22-23) (24	LJ		11 30 (28-29) (30-3	<u>ה אי</u>	OTE: Read inst	ructions befo	re com	pleting ti	nis form.
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		AVERAGE	MAXIM	NUM	UNITS	MIN	IMUM	AVERA	GE	MAXIMUM	UNITS	EX (62-63)	ANALYSIS	(69-70)
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	REQUIREMENT									110				
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Hq	PERMIT REQUIREMENT										SU		3,30	9.00
							6.0			9.0				
	SAMPLE MEASUREMENT					n.	.d.	2.	3	4.0		0	9/30	grab
Oil & Grease	PERMIT REQUIREMENT										mg/L			
						n,	/a	10		15				
	SAMPLE Measurement					n.	.d.	n.	d.	n.d.		0	9/30	grab
Phenols	PERMIT REQUIREMENT						/a	0.		0.7	mg/L			
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TYPED OR PRINTED	and ur	maximum imprisonment of	between 6 moi	nthu and 5 ye	ears.)		OFF	ICER OR AU	THORIZE	D AGENT	REA NUME	ER	YEAR	MO DAY

# MONTHLY NPDES DISCHARGE REPORT WORK SHEET

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					FLOW									
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Report Date: December 1, 1995

Job Number: 951127AF
PO Number: Amos Kamerer
Project No: None Provided

Project Name: None Provided

Amos Kamerer Koppers Industry 7540 NW St. Helens Rd. Portland, OR 97210-3663

## **Analytical Narrative**

The sample was received on 11/27/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
951127AF-1	WWT 2-4-6 Composite	Waste Water	11/27/95	1545

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Rona A. Klueh

Technical Director

RAK/atc

RECEIVED

DEC 5 1995

KOPPERS INDS., INC. PORTLAND, OR

Coffey Laboratories, Inc.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452



# **Analytical Data**

Koppers Industry

Job Number: 951127AF

Page Number: 2 of 2

Lab Sample ID: 951127AF-1

Field ID: WWT 2-4-6 Composite

Date/Time: 11/27/95 1545 Matrix: Waste Water

EPA Category: Conventional Parameters

		Detection	Analytical		Analysis	
Parameter	Method	<u>Limit</u>	Result	<u>Units</u>	Date	Analyst
Oil & Grease	EPA 413.1	3.	ND	mg/L	11/28/95	AB
Total Phenols	EPA 420.1	0.05	ND	mg/L	11/28/95	PDB

ND means none detected at or above the detection limit listed.

11/27/95 WWT 246 54°F pH 6.3

# Koppers003687

PORTLAND BRANCH

12423 NE Whitaker Way Portland, OR 97230

(503) 254-1794 FAX: (503) 254-1452

# COFFEY LABORATORIES, INC. CHAIN OF CUSTODY AGREEMENT

PENDLETON BRANCH 287 SE First Pendleton, OR 97801 (503) 276-0385

Report Attention: Amos Kamerer Company Name: Koppers Industries Fuc Address: 7540 NW St Helens Road Portland UP 97210 Phone: (503) 286-368 FAX: (503) 285-2831 Report Instructions:	Standa Priorit Rush (	nple Turnaround  ord	Reporting Red AX (T-35) erbals (T-1157) xtra Report Copy Fees Associated)	quest  Quest  Quest  Quest  Card #:  Cash / Chec  Billing Cade	FOR LABORATORY USE ONLY Page of Job Number: W FAS 12 A A STATE OF		
Sample ID		ID Collection Date / Time	Media	An	alysis Requested	Test/Profil	
WWT 2-4-6 compos	K	11/2/1/35 3:45	ph	Phon	ves	-	
WWT 2-4-6 composite		11/27/98 3,45	pn	0117	Grease		
			-				
Sample Comments:				· · · · · · · · · · · · · · · · · · ·			
Sampled by: (Please Print)	Relinguished	by (Please Sign)	Date Ti	me 2 Receiv	ed by: (Sign)	Date Time	
White Copy - Laboratory Copy Yellow Copy - Client Copy SHADED AREAS FOR LABORATORY USE ONLY	Lanen'	1 000	27/85 9:	Som Kanan 35 pm		11/2/55 3:45	

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

# COFFEY LABORATORIES, INC. CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

#### INSTRUCTIONS

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PROJECT NAME - Applies to customer project name. This data is provided at the customer's discretion.

PROJECT NUMBER - Applies only to samples submitted by the customer. This data is provided at the customer's discretion.

FIELD ID - A short description of the sample point (e.g., "Effluent from sand filter"). This description will

appear on the report.

COLLECTION DATE - The date on which the sample(s) was/were collected.

COLLECTION TIME - The time at which the sample(s) was/were collected.

MEDIA - This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)

ANALYSIS' REQUESTED - Use one line for each analysis or group of analyses associated to a specific bottle.

SAMPLE COLLECTED BY - The person who collected the sample(s) signs here.

RELINQUISHED BY - The sampler signs this box when he/she gives the sample to someone else, and then fills in the

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JOB OR SAMPLE REMARKS - General sample or job remarks.

#### CONDITIONS

#### PRICING AND CHARGES

Prices to be charged for work performed for CLIENT are those currently published in the Coffey Laboratories, Inc. (CLI) standard pricebook. CLIENT must notify CLI of price quotation at the time of the transfer of sample(s) to CLI. All submissions of samples with testing requirements to CLI will be understood to be an agreement for services. Any cancellation of testing requirements will result in charges being assessed on all testing completed prior to the notice of cancellation.

#### **DELIVERY AND LIABILITY LIMITATIONS**

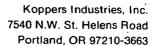
CLI will analyze samples provided by CLIENT as requested by CLIENT in accordance with the procedures documented in the CLI Quality Assurance Plan (QAP). The maximum total liability assumed by CLI for work performed for CLIENT will in all cases be limited to the cost of the analysis. The specific format of the deliverable goods will be defined by CLIENT to CLI upon transfer of the samples to CLI. This warranty supersedes all other warranties.

#### CONFIDENTIALITY

CLI will use its best efforts to treat all information regarding work performed for CLIENT as proprietary and confidential to the maximum extent allowed by law. NO CLIENT information will be released without the written consent of the CLIENT billed for the work.

#### APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.





Telephone: 503-286-3681 Fax: 503-285-2831

27 November, 1995

Amos S. Kamerer, Plant Manager Koppers Industries, Inc. 7540 NW St Helens Road Portland, OR 97210

Dear Sir:

On November 25, 1995 I did a full walk through inspection of plant operations. Due to record rainfall of the last 24 hours, I found the lower tank farm flooding, all waste water tanks overflowing, and rain still falling.

If this situation continues, we will sustain further damage than we have already to pumps and other equipment. Due to this situation, I started pumping the overflow of rainwater directly to the plant outfall. We will continue this until we are out of danger. At this time, we also sampled waste water tanks 2, 4, and 6, and requested rush analysis.

Sincerely,

7. J. Turner General Foreman



Report Date: November 20, 1995

Job Number: 9511150

PO Number: Verbal-Amos Kamerer

Project No: None Provided Project Name: None Provided

Amos Kamerer Koppers Industry 7540 NW St. Helens Rd. Portland, OR 97210-3663

#### **Analytical Narrative**

The sample was received on 11/15/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
9511150-1	WWT 1-3-5 Composite	Waste Water	11/15/95	0830

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Rona A. Klueh Technical Director

RAK/atc

RECEIVED

NOV 27 1995

KOPPERS INDS., INC. PORTLAND, OR

Coffey Laboratories, Inc.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452



#### **Analytical Data**

Koppers Industry

Job Number: 9511150

Page Number: 2 of 2

Lab Sample ID: 951115O-1

Field ID: WWT 1-3-5 Composite

Date/Time: 11/15/95 0830 Matrix: Waste Water

EPA Category: Conventional Parameters

		Detection	Analytical		Analysis	
Parameter	Method	Limit	Result	Units	Date	Analyst
Oil & Grease	EPA 413.1	3.	4.	mg/L	11/15/95	AB
Total Phenols	EPA 420.1	0.05	ND	mg/L	11/16/95	PDB

ND means none detected at or above the detection limit listed.

11/15/95 WWT 1-3-5 pt 6.4 58°F

# Koppers003693

PORTLAND BRANCH

12423 NE Whitaker Way

(503) 254-1794 FAX: (503) 254-1452

Portland, OR 97230

#### COFFEY LABORATORIES, INC. CHAIN OF CUSTODY AGREEMENT

PENDLETON BRANCH 287 SE First Pendleton, OR 97801 (503) 276-0385

Report Attention: HWOS Kamener Company Name: Korrey Sydustries		Project Name: Project Number:							FOR LABORATORY USE ONLY Jub Number: 1965/	Page	of
Address: 7540 NW St Helens R	d	PO Number:							Cristabbr:		□NEW
Portland OR 97210	- 11	ļ	nple Turn	around	F	Reporting I	Request	$\exists$	□VISA □M/C Expires:		
Phone: (503) 286-368) FAX: (503) 285-7	282	Standard			☐ FAX	(T-35)		i	Card #:		
Report Instructions:		Priorit	y (1.5x St	d. Fee)	☐ Verb	als (T-1157	7)		Cash / Check: \$		#:
		Rush (	(2x Std. Fe	ee)	Extra Report Copy (T-1402)			2)	Billing Code: 1 2 3 4		
		(Fees Associated)    Emergency (3x Std. Fee)   Initials:				QC LEVEL: 1 2 3 4 FEDX BUS COURIER UPS	LAB CLIEN	ri) MAIL			
Sample ID		Loc.	ID	Colle Date	ction Time	Media			Analysis Requested		Test/Profile
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WWI 1-3-5 Compo	11 R			11/15/95	8:30			<u> </u>	il & Greath		
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Sample Comments:			<del></del>								7.01.15
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SUBMISSION OF SAMPLES WITH TI SERVICES IN ACCORDANCE WITH	ESTING THE CO	REQUI ONDITION	REMI ONS/L	ENTS TO ISTED	O CLI V ON TH	WILL I E BAC	BE UNI K OF T	DER!	STOOD TO BE AN AGRE CLIENT COPY.	EMENT F	OR

# COFFEY LABORATORIES, INC. CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

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COLLECTION TIME - The time at which the sample(s) was/were collected.

MEDIA - This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)

ANALYSIS REQUESTED - Use one line for each analysis or group of analyses associated to a specific bottle.

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**RELINQUISHED BY** - The sampler signs this box when he/she gives the sample to someone else, and then fills in the

date/time the sample left his/her possession.

RECEIVED BY - The person who receives the sample(s) signs here and fills in the date/time received. The date and

time should be same as "Relinquished by" unless the sample(s) was/were shipped.

JOB OR SAMPLE REMARKS - General sample or job remarks.

#### CONDITIONS

#### PRICING AND CHARGES

Prices to be charged for work performed for CLIENT are those currently published in the Coffey Laboratories, Inc. (CLI) standard pricebook. CLIENT must notify CLI of price quotation at the time of the transfer of sample(s) to CLI. All submissions of samples with testing requirements to CLI will be understood to be an agreement for services. Any cancellation of testing requirements will result in charges being assessed on all testing completed prior to the notice of cancellation.

#### DELIVERY AND LIABILITY LIMITATIONS

CLI will analyze samples provided by CLIENT as requested by CLIENT in accordance with the procedures documented in the CLI Quality Assurance Plan (QAP). The maximum total liability assumed by CLI for work performed for CLIENT will in all cases be limited to the cost of the analysis. The specific format of the deliverable goods will be defined by CLIENT to CLI upon transfer of the samples to CLI. This warranty supersedes all other warranties.

#### CONFIDENTIALITY ...

CLI will use its best efforts to treat all information regarding work performed for CLIENT as proprietary and confidential to the maximum extent allowed by law. NO CLIENT information will be released without the written consent of the CLIENT billed for the work.

#### APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.





Telephone: 503-286-3681 Fax: 503-285-2831

13 November, 1995

Amos S. Kamerer, Plant Manager Koppers Industries, Inc. 7540 NW St Helens Road Portland, OR 97210

Dear Sir:

On November 11, 1995 I did a full walk through inspection of plant operations. Due to record rainfall of the last 24 hours, I found the lower tank farm flooding, all waste water tanks overflowing, and rain still falling.

If this situation continues, we will sustain further damage than we have already to pumps and other equipment. Due to this situation, I started pumping the overflow of rainwater directly to the plant outfall. We will continue this until we are out of danger. We at this time also sampled waste water tanks 1, 3, and 5, and requested rush analysis.

Sincerely,

T. J. Turner General Foreman



Report Date: November 10, 1995

Job Number: 951107V

PO Number: Amos Kamerer Project No: None Provided Project Name: None Provided

Amos Kamerer Koppers Industry 7540 NW St. Helens Rd. Portland, OR 97210-3663

#### **Analytical Narrative**

The sample was received on 11/07/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
951107V-1	WWT 1-3-5 Composite	Waste Water	11/07/95	1225

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Rona A. Klueh Technical Director

RAK/atc

RECEIVED

NOV 1 1 1995

KOPPERS INDS., INC. PORTLAND, OR

Coffey Laboratories, Inc.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452



#### **Analytical Data**

Koppers Industry

Job Number: 951107V

Page Number: 2 of 2

Lab Sample ID: 951107V-1

Field ID: WWT 1-3-5 Composite

Date/Time: 11/07/95 1225 Matrix: Waste Water

EPA Category: Conventional Parameters

		Detection	Analytical		Analysis	
Parameter	Method	Limit	Result	Units	Date	Analyst
Oil & Grease	EPA 413.1	3.	3.	mg/L	11/07/95	AB
Total Phenols	EPA 420.1	0.05	ND	mg/L	11/07/95	PDB

ND means none detected at or above the detection limit listed.

11/7/95 53. F pH 6.2wwr 1-3-5

# Koppers003699

# COFFEY LABORATORIES, INC. CHAIN OF CUSTODY AGREEMENT

PORTLAND BRANCH
12423 NE Whitaker Way
Portland, OR 97230
(503) 254-1794 FAX: (503) 254-1452

PENDLETON BRANCH 287 SE First Pendleton, OR 97801 (503) 276-0385

Report Attention: Amos Kamerel Company Name: Koppers Industries Inc Address: 7540 NW St Heleus Rd Portland OR 97210 Phone: (503) 286-368 FAX: (503) 285-2831 Report Instructions:	PO Number:  Sample Turnaround  Standard  Priority (1.5x Std. Fee)  Rush (2x Std. Fee)			☐ FAX	als (T-1157	) py (T-1402) d)	Card Cash Billin	□VISA □M/C Expires:  Card #:  Cash / Check: \$ #:  Billing Code: 1 2 3 4  QC LEVEL: 1 2 3 4			
Sample ID	Loc.	IĐ	Colle Date /	ction Time	Media			Analysis R	equested		Test/Profile
WWT 1-3-5 composite			11/195	12:25			phe	mols			
Sample Comments:			11 h/h/s	1275			oil	<b>対</b> (ケ)	rease		
Sampled by: (Please Print)		y: (Please	Sign)	Da	te 7	l'ime	. 1	Received by: (	Sign)	Pate	Time
T. J. Turner				Tih	195 12	730	Kao	n 211	Color	11/7/95	12:30
White Copy - Laboratory Copy Yellow Copy - Client Copy SHADED AREAS FOR LABORATORY USE ONLY		•		. !		14		THE		ht 111	175

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

## COFFEY LABORATORIES, INC. CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

#### INSTRUCTIONS

FOR LAB USE ONLY - All shaded areas are for laboratory use only. Please Do Not Write in These Areas.

REPORT ATTENTION - Name of the person who receives the laboratory report.

COMPANY NAME - Name of the company or individual requesting the analysis.

REPORT ADDRESS - Address of the company or individual requesting the analysis. (Address where report should be mailed)

REPORT INSTRUCTIONS - A brief description of any special mail instructions, or address information pertaining to extra report

copies.

**PROJECT NAME** - Applies to customer project name. This data is provided at the customer's discretion.

PROJECT NUMBER - Applies only to samples submitted by the customer. This data is provided at the customer's discretion.

FIELD ID - A short description of the sample point (e.g., "Effluent from sand filter"). This description will

appear on the report.

COLLECTION DATE - The date on which the sample(s) was/were collected.

COLLECTION TIME - The time at which the sample(s) was/were collected.

MEDIA - This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)

ANALYSIS REQUESTED - Use one line for each analysis or group of analyses associated to a specific bottle.

SAMPLE COLLECTED BY - The person who collected the sample(s) signs here.

RELINQUISHED BY - The sampler signs this box when he she gives the sample to someone else, and then fills in the

date/time the sample left his/her possession.

RECEIVED BY - The person who receives the sample(s) signs here and fills in the date/time received. The date and

time should be same as "Relinquished by" unless the sample(s) was/were shipped.

JOB OR SAMPLE REMARKS - General sample or job remarks.

#### CONDITIONS

#### PRICING AND CHARGES

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#### CONFIDENTIALITY

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#### APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.



DEPARTMENT OF
ENVIRONMENTAL
QUALITY

November 1, 1991

Good morning:

As you may know, the Department of Environmental Quality (DEQ) has developed a new annual reporting system for hazardous waste handlers in Oregon. The enclosed reporting forms package will allow you to satisfy several DEQ and U.S. Environmental Protection Agency (EPA) obligations at one time

The information gained from this report will allow DEQ and the citizens of Oregon to better understand the nature of hazardous waste activities during 1991. These reports will also allow DEQ to meet its reporting obligation to EPA and the U.S. Congress. DEQ will use the information in these reports to update mailing lists so that technical information can be accurately distributed to appropriate groups. Finally, this information will serve as the basis for annual fee invoices in 1992, which will be based on the amount of waste generated, how it is managed, and your status as a handler.

Everyone who receives this packet must respond in some way. All large quantity generators, small quantity generators, designated recycling facilities, and treatment, storage and disposal facilities must complete the appropriate reporting forms. Conditionally exempt generators or nongenerators must return the postcard on the back of Book 1. A completed form or postcard must be returned to DEQ by March 1, 1992.

In order to assist you with completing your forms, DEQ has scheduled a series of workshops throughout the state which will help you better understand hazardous waste issues and the new reporting forms. Please review the enclosed brochure and return a registration form to DEQ for the workshop which best meets your need. (The Salem workshop on November 12 & 13 is full. We are attempting to schedule another two-day workshop in February for the Portland metropolitan area. Please let us know if you are interested in this February workshop so we can notify you of a time and location once it is set.)

Should you have any questions, you can call DEQ at (503) 229-6240 for more information. Thank you for your cooperation.

Sincerely,

Roy W. Brower, Manager Hazardous Waste Reduction and

Technical Assistance

RWB:k HWFM\LTR\ZK3839 Enclosures

ay : 1

KOPPERS INDS., INC. PORTLAND, OR



811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696

DEO-1

Called John Oderie 5-27-92

told him of our Previous exemption, Oregon

Athe DE & inspectors Visit in 91

and that no hazardons waste was

generated in 91. He said he worth ENVIRONMENTAL

exempt us on the Computer

April 2, 1992

19.0

John Oxford Koppers Industries, Inc. 7540 NW St. Helens Road Portland, OR 97229

Re: Toxics Use Reduction and Hazardous Waste Reduction Plan for facility located at 7540 NW ST. HELENS RD PORTLAND, OR 97229

In 1989, the Oregon Legislature enacted the Toxics Use Reduction and Hazardous Waste Reduction Act (ORS 465.003 through 465.037), the first of its kind in the country. The Act is intended to go beyond traditional "end-of-the-pipe" pollution control programs and promote the prevention of pollution through facility-wide planning efforts which result in a reduction in the use of toxic substances and generation of hazardous wastes. The law benefits both businesses and the environment through reduced costs, liabilities, and up-front environmental protection.

The law requires businesses, industries, government agencies, and institutions to review the practices and processes that use toxic substances and generate hazardous wastes and to prepare reduction plans. The law also provides for a technical assistance program provided by the Department of Environmental Quality (DEQ) to assist businesses in their planning efforts, and directs the DEQ to monitor the effectiveness of the program, including onsite review of the plans.

Many businesses and other organizations have already found that they can reduce the costs and liabilities associated with handling hazardous materials and generating hazardous wastes through the implementation of a reduction program. The planning guidelines are flexible enough to allow you to develop a program which will work best in your facility. The guidelines also will help you select options that are both technically and economically feasible.

### RECEIVED

APR 6 1992

KOPPERS INDS., INC. PORTLAND, OR



811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696 TDD (503) 229-6993



# Toxics Use Reduction & Hazardous Waste Reduction Plan Preparation Training Sessions

DEPARTMENT OF ENVIRONMENTAL QUALITY

<u>Purpose of the sessions:</u> To help small quantity generators (SQG) of hazardous waste prepare toxics use reduction plans, which are required to be completed by September 1, 1992.

This will be a hands-on training session designed to give you practical information and to get you started on preparing a plan.

How to register: These sessions are popular and space is limited! To attend one of the training sessions, you MUST register. Please register ONLY the number of people from your organization who will actually attend the session. To register, call Joyce Thomas or Janelle Dean at 229-5913, or toll free at (800) 452-4011.

Times: All sessions run from 1:00 PM to 4:00 PM, except as noted.

#### **Dates and Locations:**

Tuesday, April 28
Gresham
Legacy Health Center, Room 204
2850 E. Powell Valley Road
(across from Fred Meyer)

Thursday, April 30
The Dalles
Mid Columbia Senior Center
1112 West 9th

Tuesday, May 5
Bend
Cascade Natural Gas Building
334 NE Hawthorne
(just off 3rd by the Safeway Plaza)

Wednesday, April 29
Forest Grove
Light and Power Auditorium
1818 "B" Street
(southwest end of town)

Monday, May 4
Eugene
Lane County Public/Court House
125 East 8th

Tuesday, May 5
Coos Bay
Neighborhood Hall
250 Hull St.
(right off Newmark,
out by the college)



\$11 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696 Wednesday, May 6 Grants Pass Isaac Walton log cabin 1001 Vista Dr. (in Riverside Park)

Monday, May 11
Oregon City
Baxter Annex
Marylhurst Campus
(on Pacific Hwy., north of West Linn)

Tuesday, May 12
La Grande
Highway Division Conference Room
3012 Island Drive
(in Island City strip, behind State Police)

Thursday, May 14
John Day
Council Chambers
City Hall

Thursday, May 7
Klamath Falls
College Union Hall
3201 Campus Dr.
Oregon Institute of Tech.

Tuesday, May 12
Salem
PGE Building
4245 Kale St., NE
(Chemawa exit from I-5, on old 99E)

Wednesday, May 13
Ontario
Cascade Natural Gas
Community Services Bldg.
180 West Idaho, Ontario
(park in city lot or Elk Lodge only)

Monday, June 1
Portland
Oregon Convention Center
777 NE M. L. King Jr. Blvd.
Sessions at 8:00 AM and 1:00 PM



# Waste Reduction Assistance Program

FOR TOXIC SUBSTANCES AND HAZARDOUS WASTES

#### YOU ARE A LARGE USER IF...



 your company was required to submit a Toxics Release Inventory (TRI) report to EPA

#### Or if you meet all three of the following criteria

- you are a manufacturer with a SIC code of 20 to 39
- you have 10 or more full-time employees
- you manufacture, process, or import 25,000 pounds or more of listed chemicals in one year or use 10,000 pounds or more of any listed chemical in one year without incorporating it into a product

#### YOU ARE A LARGE QUANTITY GENERATOR IF ...



#### In one calendar month you...

- generate 2,200 pounds or more of hazardous waste or
- generate 2,200 pounds or more of spill cleanup debris containing hazardous waste *or*
- generate more than 2.2 pounds of acutely hazardous waste or
- generate more than 220 pounds of spill cleanup debris containing an acutely hazardous waste or

#### At any time you...

 accumulate more than 2.2 pounds of acutely hazardous waste on-site

#### YOU ARE A SMALL QUANTITY GENERATOR IF ...



#### In one calendar month you...

- generate more than 220 pounds and less than 2,200 pounds of hazardous wastes *or*
- generate more than 220 pounds and less than 2,200 pounds of spill cleanup debris containing hazardous wastes or

#### At any time you...

accumulate more than 2,200 pounds of hazardous waste on-site

#### YOU ARE A CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR IF...



#### In one calendar month you...

- generate 2.2 pounds or less of acutely hazardous wastes or
- generate 220 pounds or less of hazardous wastes or
- generate 220 pounds or less of spill cleanup debris containing hazardous waste *or*

#### At any time you...

■ accumulate up to 2,200 pounds of hazardous waste on-site





April 2, 1992 Page 2

All facilities that were large toxics users in 1990 or 1991, or were large quantity hazardous waste generators or small quantity hazardous waste generators in 1991, are required to develop plans by September 1, 1992. (See the enclosed fact sheet for definitions of these terms.) Our records show that your facility is a large toxics user, large quantity generator, small quantity generator, or a combination thereof. Therefore, you are required to prepare a plan and notify the DEQ by September 1, 1992 that the plan has been completed.

In order to assist you with understanding the requirements of the law, the DEQ has scheduled a series of plan development workshops which will be held throughout the state in April and May. Please review the enclosed schedule and register by phone or mail as soon as possible.

In addition to the workshops, the DEQ's technical assistance staff will be available to help you through telephone assistance and, on a limited basis, visits to your facility. A technical library of information on reduction options is available at the DEQ to help you determine what programs may work best for your facility.

Enclosed is a planning manual that will help you prepare a reduction plan:

Benefitting from Toxic Substance and Hazardous Waste Generation, A Planning Guide for Oregon Businesses

After you complete your plan, fill out the Notice of Plan Completion form on page 42 in the manual and mail it to the DEQ.

Also enclosed is a brochure that explains the Governor's Award Program for toxics use reduction. The goal of the program is to encourage the implementation of toxics use reduction and hazardous waste reduction programs in Oregon through the public recognition of persons who have developed and implemented exemplary reduction programs. Call the DEQ if you would like an application to apply for the award.

If your facility's name or address is written incorrectly in the address section of this letter, or if you believe the DEQ's records for your facility are not accurate, please contact John Odisio in Portland at 229-6352.

Please take this opportunity to develop and implement a plan which reduces the use of toxic substances and the generation of hazardous wastes in your facility. Our mutual goal is to make Oregon a safer place to live and work and to improve the environment for ourselves and future generations.

April 2, 1992 Page 3

If you have any questions about the law or how to prepare a reduction plan, please contact the Hazardous Waste Reduction and Technical Assistance Program at (503) 229-5913.

Sincerely,

Roy W. Brower

Manager, Hazardous Waste Reduction and Technical Assistance Program

JMO:jmo Enclosures:

1. Toxics user and hazardous waste generator definition sheet

2. <u>Benefitting from Toxic Substance and Hazardous Waste</u> <u>Generation</u>, A Planning Guide for Oregon Businesses

3. Plan development workshop schedule

4. Governor's Award brochure



DEPARTMENT OF
ENVIRONMENTAL
QUALITY

November 20, 1991

Dear Hazardous Waste Generator:

RWB:b

HWPD\LTR\ZB10995

Enclosure(s)

Enclosed you will find an invoice from the Oregon Department of Environmental Quality (DEQ) for hazardous waste generated by your facility during calendar year 1990. Oregon Administrative Rules (OAR 340-102-065) direct DEQ to charge a fee to all generators of hazardous waste, based on the weight of the waste generated during the previous calendar year. Also enclosed is a Generator Fee Fact Sheet which helps explain this fee assessment.

We have included with each invoice a detailed "Waste Summary Report" of the shipments of hazardous waste from your facility during 1990. This information is obtained from several sources. (The source of the information is indicated in the "Data From" column on the printout.) While we rely primarily on quarterly reports from generators, we also use reports filed by receiving facilities (known as a TSDR - treatment, storage, disposal or recycling facility). All TSDRs are under a legal obligation to report to DEQ the names of generators sending waste to their facility, as well as the quantity and type of waste. Failure of the TSDR to report this information could jeopardize their right to operate.

Generators who notified DEQ of their conditionally exempt status are not assessed a fee unless our records indicate that significant volumes of hazardous waste were generated. If, after reviewing the enclosed invoice and waste summary report, you determine that you are a conditionally exempt small quantity hazardous waste generator (CEG), you must inform DEQ in writing of your change in generator status. We will review the information and inform you of any changes to your fee assessment.

If you have any questions concerning your invoice or require additional information or notification forms, please contact Edna Mayes (229-5648), Susan Eidman (229-6511) or Scott Latham (229-5082).

Sincerely,

Roy W. Brower, Manager Hazardous Waste Reduction &

Technical Assistance Section

811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696

110 Y Z Z 1991

KOPPERS INDS., INC. PORTLAND, OR

DEQ-1



DEPARTMENT OF
ENVIRONMENTAL
OUALITY

October 8, 1991

John Oxford Koppers Industries, Inc. 7540 NW St. Helens Road Portland, OR 97229

Re:

Notice of Deficiency regarding Toxics Use Reduction

and Hazardous Waste Reduction Plan

Facility: KOPPERS INDUSTRIES, INC

on March 8, 1991 the Department of Environmental Quality sent your company a notification packet to the address indicated above. To date we have not received a response required by the Toxics Use Reduction and Hazardous Waste Reduction Act of 1989. Under this law some Oregon companies must prepare reduction plans and notify the Department of Environmental Quality in writing that such a plan has been completed by September 1, 1991. Our records indicate that your company was a large quantity generator of hazardous wastes, or a large toxics user (filed a Form R report under SARA 313), or fell into both of these categories in 1990 and therefore must complete a reduction plan and a "Notice of Plan Completion". If your status in 1990 was different than indicated you are exempt from filing the notice this year. However, you must notify the Department in writing of this status change immediately.

Your company has until December 1, 1991 to develop a plan and submit the required "Notice of Plan Completion" to Oregon DEQ, Hazardous and Solid Waste Division, 811 S.W. Sixth Avenue, Portland, Oregon 97204. After this period the regulations state that the Department shall make any information regarding the adequacy of these reduction plans available to the public. Although we hope it will not be necessary, the Department intends to make public the list of companies who were required by law to submit plans but did not. Please help us ensure that your company's name is not on that list by responding promptly to this letter.

OVER

OCT 15 1991

KOPPERS INDS., INC. PORTLAND, OR 811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696 TDD (503) 229-6993 DEQ-1 If you need help preparing your plan the Department of Environmental Quality is available to provide technical assistance to your company on a first come first served basis. The Waste Reduction Assistance Program (WRAP) was established by the Oregon legislature as a non-regulatory program to provide technical expertise, information and in-plant assistance to Oregon companies wishing to reduce their chemical usage and the generation of hazardous waste.

For more information about the law or the WRAP technical assistance program you can call 229-5913 or 800-452-4011.

Sincerely,

Holing we are exempt from T. UR

because we do not manufacture

Certified mail CC: Swearingen Kommer Plant Fill

here. Latter sent 19/9/ to S.E. 9

Roy W. Brower, Manager
Hazardous Waste Reduction
and Technical Assistance
Section

She is requiring a letter from

Koppers003710

## KOPPERS

7540 N.W. ST. HELENS ROAD PORTLAND, OREGON 97210

TO: Bill Sweringen K-1800
COMPANY NAME: 15
FROM: Kopp en Poitlorel
NUMBER OF PAGES TO FOLLOW: (2) turn
IF YOU DO NOT RECEIVE ALL MATERIAL TRANSMITTED, PLEASE CALL US AT: (503) 286-3681
OUR FAX NUMBER IS: (503) 285-2831
SENT BY: 1 TIME: 9 20 DATE: 3/18/9/



DEPARTMENT OF ENVIRONMENTAL QUALITY

March 8, 1991

In 1989, the Oregon Legislature enacted the Toxics Use Reduction and Hazardous Waste Reduction Act (ORS 465.003 through 465.037), the first of its kind in the country. The Act is intended to go beyond the traditional "end-of-the-pipe" pollution control programs and promote the prevention of pollution through facility-wide planning efforts which result in a reduction in the use of toxic substances and generation of hazardous wastes. The law benefits both businesses and the environment through reduced costs and liabilities and up-front environmental protection.

The law requires businesses, industries, government agencies and institutions to review the practices and processes that use toxic substances and generate hazardous wastes and prepare reduction plans. The law also provides for a technical assistance program provided by the Department of Environmental Quality (DEQ) to assist businesses in their planning efforts, and directs the DEQ to monitor the effectiveness of the program, including on-site review of the plans.

Many businesses have already found that they can reduce the costs and liabilities associated with handling hazardous materials and generating hazardous wastes through the implementation of a reduction program. The planning guidelines are flexible enough to allow you to develop a program which will work best in your facility. The guidelines also will help you select options that are both technically and economically feasible.

The law requires that all large toxics users (LTU) and large quantity hazardous waste generators (LQG) develop plans by September 1, 1991, and small quantity hazardous waste generators (SQG) develop plans by September 1, 1992. (See the attached fact sheet for a definition of these terms.) Our records indicate that your facility is considered an LTU or LQG and is required to develop a reduction plan by September 1, 1991. (The law states that your status in calendar year 1990 determines when your plan is due.) If you believe that our

T. A 7 1991

NOFFERD PLET, NO.

811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696 March 8, 1991 Page 2

records are incorrect, please contact DEQ in writing as soon as possible.

Enclosed are materials which will help you prepare a reduction plan:

- Toxics Use Reduction and Hazardous Waste Reduction Act Summary; and
- "Benefitting from Toxic Substance and Hazardous Waste Generation, A Planning Guide for Oregon Businesses." The manual contains the text of the statutes and regulations.

In order to assist you with understanding the requirements of this new law, DEQ has scheduled a series of Plan Development Workshops which will be held throughout the state in April and May. Please review the attached schedule send in your registration form as soon as possible.

In addition to the workshops, DEQ's technical assistance staff will be available through telephone assistance and visits to your facility to help you develop your plan and answer questions. A technical library of information on reduction options is available at DEQ to help you determine what programs may work best for your facility.

We hope you will use this opportunity to develop and implement a plan which reduces the use of toxic substances and the generation of hazardous wastes in your facility. Our mutual goal is to make Oregon a safer place to live and work and to improve the environment for ourselves and future generations.

If you have any questions about the law or how to prepare a reduction plan, please contact the Hazardous Waste Reduction and Technical Assistance Program at (503) 229-5913.

Sincerely,

Roy W. Brower

Manager, Hazardous Waste Reduction and Technical

Assistance Program

RWB:mef Enclosure

ella

7-15-91



Telephone: (503) 286-3681 FAX: (503) 285-2831

October 17, 1991

Oregon D.E.Q. Attn: Ms. Susan Eidman 811 S. W. 6th Ave. Portland, Oregon 97204-1390

Dear Ms. Eidman:

This letter is in response to our telephone conversation of October 17, 1991, in which I referred to our telephone conversation of July 15, 1991. As I told you at that time, Koppers Industries Inc., Portland, Oregon facility should be exempt from reporting under the Toxic Use Reduction & Hazardous Waste Reduction Act of 1989. Koppers is not a large quantity generator of waste, nor are we a large user of Toxics. facility here in Portland does not manufacture any product. We are a distribution terminal, distributing Coal Tar Creosote and Coal Tar Pitch to customers in the Northwest. Our materials are manufactured at other Koppers facilities outside of the State of Oregon. Any past records of waste disposal from Koppers facility in Portland simply attest that spills were cleaned up and disposed of according to State and Federal Laws.

If you require more information or if I can be of help in any way please feel free to call.

Sincerely,

John A. Oxford Plant Manager

CC: Wm. Swearingen
A. Kamerer
Plant File

JAO:mn

rum uxtma

Note

5/9/91 Drawsed with Oxford on phone today. He will write up a draft Worte Pedaction Plan and send to me for review. I told him that since we don't generate waster promitte process but only accasionally from spills that the plan should point out spill control who externesses plus management leak control program eta.

Oregon

DEPARTMENT OF ENVIRONMENTAL

QUALITY

In 1989, the Oregon Legislature enacted the Toxics Use Reduction and Hazardous Waste Reduction Act (ORS 465.003 through 465.037), the first of its kind in the country. The Act is intended to go beyond the traditional "end-of-the-pipe" pollution control programs and promote the prevention of pollution through facility-wide planning efforts which result in a reduction in the use of toxic substances and generation of hazardous wastes. The law benefits both businesses and the environment through reduced costs and liabilities and up-front environmental protection.

The law requires businesses, industries, government agencies and institutions to review the practices and processes that use toxic substances and generate hazardous wastes and prepare reduction plans. The law also provides for a technical assistance program provided by the Department of Environmental Quality (DEQ) to assist businesses in their planning efforts, and directs the DEQ to monitor the effectiveness of the program, including on-site review of the plans.

Many businesses have already found that they can reduce the costs and liabilities associated with handling hazardous materials and generating hazardous wastes through the implementation of a reduction program. The planning guidelines are flexible enough to allow you to develop a program which will work best in your facility. The guidelines also will help you select options that are both technically and economically feasible.

The law requires that all large toxics users (LTU) and large quantity hazardous waste generators (LQG) develop plans by September 1, 1991, and small quantity hazardous waste generators (SQG) develop plans by September 1, 1992. (See the attached fact sheet for a definition of these terms.) Our records indicate that your facility is considered an LTU or LQG and is required to develop a reduction plan by September 1, 1991. (The law states that your status in calendar year 1990 determines when your plan is due.) If you believe that our

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ON FISH

ROPPERS INDS., INC. PORTLAND, OR 811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696

DEQ-1



March 8, 1991 Page 2

records are incorrect, please contact DEQ in writing as soon as possible.

Enclosed are materials which will help you prepare a reduction plan:

- Toxics Use Reduction and Hazardous Waste Reduction Act Summary; and
- "Benefitting from Toxic Substance and Hazardous Waste Generation, A Planning Guide for Oregon Businesses." The manual contains the text of the statutes and regulations.

In order to assist you with understanding the requirements of this new law, DEQ has scheduled a series of Plan Development Workshops which will be held throughout the state in April and May. Please review the attached schedule send in your registration form as soon as possible.

In addition to the workshops, DEQ's technical assistance staff will be available through telephone assistance and visits to your facility to help you develop your plan and answer questions. A technical library of information on reduction options is available at DEQ to help you determine what programs may work best for your facility.

We hope you will use this opportunity to develop and implement a plan which reduces the use of toxic substances and the generation of hazardous wastes in your facility. Our mutual goal is to make Oregon a safer place to live and work and to improve the environment for ourselves and future generations.

If you have any questions about the law or how to prepare a reduction plan, please contact the Hazardous Waste Reduction and Technical Assistance Program at (503) 229-5913.

Sincerely,

Roy/W. Brower

Manager, Hazardous Waste Reduction and Technical

Assistance Program

RWB:mef Enclosure



Theodore R. Kulongoski, CRETURN RECEIPT REQUESTED

### Department of Environmental Quality

Northwest Region Portland Office

2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 (503) 229-5263

FAX (503) 229-6945 TTY (503) 229-5471

September 30, 2004

CERTIFIED MAIL

T.J. Turner General Forman Koppers Inc 7540 NW Saint Helens Road Portland, OR 97210

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Copy of Inspection Report. RE:

NWR-04-040 ORD027734359 Koppers Inc

Hazardous Waste Violations

Multnomah County

Dear Mr. Turner:

Enclosed is a copy of the inspection report for the Koppers facility. The report is done to detail the activities and discussion that occurred at the during the facility inspection. I am sending this to you to provide you any additional information you may need to address the corrections to the Notice that were requested by the Department.

If you have any questions concerning this letter or the Notice, you may contact me at (503) 229-6105.

Rebecca Paul

Natural Resource Specialist

(files)

cc: Office of Compliance and Enforcement, DEQ

FROM : KOPPERS

State of Oregon
Department of Environmental Quality

Memorandum

Date: September 16, 2004

To:

File

From:

Rebecca Paul: Northwest Region

Subject:

Inspection Report on Koppers Company.

On September 9 and September 14, 2004, I performed an inspection of the Koppers Company located at 7540 NW Saint Helens Road in Portland, Oregon. This inspection was done as a routine compliance inspection and to determine the facility's compliance with the Department's Hazardous Waste regulations. I was escorted through the facility by Mr. TJ Turner the facility's General Foreman. On the second day of the inspection, I met with Mr. Amos Kamerer, who is a Semi-Retired Manager of the facility.

#### Generator Status:

The facility was registered as a Large Quantity Generator (LQG), and was operating as an LQG for the years 2002, and 2003. Currently, the facility is a Conditionally Exempt Generator, (CEG). However Koppers may be an LQG in the future depending on how they decide to manage and characterize their waste streams in the future.

#### **Site Inspection:**

The facility was not operating at the time of the inspection. The Department has been out to this facility in years past mostly on compliant investigations. The facility is routinely inspected due to its water quality permit. There are several areas of the facility that were in the process of being cleaned and put out of service. According to Mr. Turner this work was being done while the facility's management back east was deciding what the future of the company was going to be. I asked Mr. Turner about the process in order to understand the waste streams that were generated. I received furthermore clarification during my subsequent meeting with Mr. Kamerer.

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I explained my reasoning for asking the questions related to the coat tar pitch. If the material is a hazardous material that requires reclamation prior to its use, the coal tar which is remaining inside the steel building has the potential to become a hazardous waste under the rules of speculative accumulation. The facility must process 75% of the material within one calendar year. Any material that is not processed then becomes a waste and is subject to a waste determination and management as such. Given that all of the information that the facility has provided regarding this material, it may be a hazardous waste for TCLP benzene. Since the facility has customers that use the product, it would be wise for the company to process and sell the material before the year is over. I explained this during the closing conference for the facility.

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#### Manifests and Land Disposal Restriction (LDR) Forms:

The manifests and the LDR forms were reviewed. The facility had all of the signed copies of the manifests. The LDR forms filed for each shipment of waste. All of the manifests were within the 60-day return signature requirement.

In the case of the waste codes that were assigned they may or may not be correct. The personnel Koppers took a more conservative approach to the disposal of this waste, which would is not a violation.

#### <u>Employee Training:</u>

The employee training program was reviewed. The personnel were trained in the facility's Spill Contingency Plan and some very basic hazardous waste training. They documented that the training was provided for the two years that they were operating as an LQG. As part of that requirement job descriptions for personnel must be included. The facility had job descriptions however they did not address the tasks associated with hazardous waste responsibilities. It must also include the specific list the person's name who is filling that job title. This is done so the facility and its employees have accountability. Koppers was also not doing weekly inspections of the drum storage area when hazardous waste drums were being stored. Personnel need to be trained on how to perform these inspections. These inspections should be documented in order to demonstrate compliance.

May 26, 1999

Attention: Jim Dietz

On May 25, 1999 at approximately 3:00 PM, Northwest Terminal had an inspection by the Department of Environmental Quality due to an alleged complaint they received at their office. Rebecca E. Paul, Environmental Specialist for Hazardous Waste Compliance performed the plant inspection.

During the inspection there were 2 issues of alleged non-compliance brought to my attention.

#### First Issue:

A vacuum street sweeper company we have come in and clean our plant asphalted areas on an as needed basis, deposited the water and sweepings from the plant roadways they collected. Due to a misunderstanding of the instructions, given by our plant personnel, the sweeper driver, who was new and unfamiliar with our plant, deposited the water and sweepings off the edge of the asphalt on to the adjoining soil. This area is located at the northwest end of the plant, behind the pitch warehouse, "next to the vehicle and trailer wash areas". This wash area recessed and asphalted, is where this water and sweepings are normally deposited so water can evaporate and the solids can be recycled or disposed of in a proper manner. Once this error was realized, our plant personnel removed the sweepings to the asphalt area and tarped it. Ms. Paul took 2 samples, one of the sweepings, the other of the soil on the other side of the roadway.

#### Second Issue:

Located at the south side of the pitch storage warehouse were 4 drums (1 acidic cleaner for aluminum, 1 caustic neutralizer for the cleaner, 1 citrus cleaner, 1 used oil for recycle) and several batteries on pallets contained on a steel bay. These were recently moved from the plate steel bay onto a gravel area next to it, I assume, due to the on going dismantling and construction in that area. The reason why has not been ascertained and/or confirmed. One of the 4 drums was a caustic liquid used as a neutralizer to an acid cleaner for aluminum. The plastic drum appeared to have leaked from a crack in the top of the drum as a result of being moved, leaving a white residue down the side of the drum with a small amount of residue on the gravel. Ms. Paul field-tested the residue for a pH of 12. She agreed for us to place the previously mentioned items in a contained area and to wait for her letter to proceed any further. The small amount of residue and soil was removed and placed in a hazardous waste drum.

Sincerely

1.1. Turner

General Forman

CC:

Amos Kameren

Traci Self

Kevin Fitzgerald



**Department of Environmental Quality** 

Northwest Region Portland Office

2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 (503) 229-5263

FAX (503) 229-6945 TTY (503) 229-5471

September 30, 2004

T.J. Turner General Forman Koppers Inc 7540 NW Saint Helens Road Portland, OR 97210

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RE:

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NWR-04-040 ORD027734359 Koppers Inc

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Koppers Industries, Inc. 436 Seventh Avenue Pittsburgh, PA 15219-1800

Telephone: (412) 227-2001

Fax: (412) 227-2423

December 29, 1998

Oregon Department Of Environmental Quality Northwest Region 2020 SW Fourth Avenue Suite 400 Portland, OR 97201-4987

Attention: Kathy Amidon

RE: Koppers Industries Inc. – Portland Terminal **Supplemental Information** Air Permit Application No. 26-2930 **Multnomah County** 

#### Dear Ms. Amidon:

In response to our telephone conversation of December 8, 1998, and my letter to you dated December 22, 1998, I have enclosed the following requested information:

- List of all tanks which includes tank contents, date of installation and vapor pressure.
- 2. Hazardous Air Pollutant (HAP) calculation (actual and potential) for the facility.
- 3. Design of new tanks 200 and 210, including materials to be stored for purpose of determining new source performance standards applicability (40 CFR 60, Kb)

As stated in previous correspondence the Portland Terminal Liquid pitch facility is proposed for construction in two phases. Phase I will consist of addition of a new liquid pitch storage tank (T-200) and a new 10 MM BTU/Hr hot oil heater. The existing 8.5 MM BTU/HR hot oil heater will be used as a back up unit. Phase II will consist of addition of a liquid pitch storage tank (T-210) and new fume combustion system, if required. Koppers Industries Inc. has prepared HAP calculations for the actual existing units and maximum potential emissions for the existing case and each phase thereafter. The HAP emissions for existing, Phase I and Phase II are well below Title V trigger levels.

A summary of all storage tanks which includes tank contents, date of installation and vapor pressure is enclosed. Tanks containing creosote will be changed to heavy oil storage upon installation of the demister unit. The current and future vapor pressures are shown on the table. The proposed new liquid pitch tanks 200 and 210 will not be subject to new source performace standards (40 CFR 60, Kb) because the vapor pressures are below the applicable standards.

A "Property Site Plan" indicating tank location is provided.

Kil plans to commence construction of tank T-200 and the new hot oil heater on or about January 18. 1999. Therefore, KII will submit a "Notice of Intent to Construct". This notice will be submitted separately.

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international service package is \$50,000 U.S. and the maximum carrier liability is \$50,000 U.S. except for packages com- jewelry (other than costume jewelry) in which case the maximum value or declared value is \$500 U.S. per package a	of the
maximum carrier liability peepackage is \$500 U.S.  (b) Refer to the applicable service guide for weight and size restrictions. A TOP STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE AND ADVANCED TO STATE ADV	Air shipments refused by consignees, or which for any other reason cannot be delivered; which the shipper will be consided for luther instructions. The shipper will be passesable for payment of all other charges including but problems to have considered.
(c) No service shall be rendered in the transportation of any of the prohibited writigids listed in the applicable service guides.	disposal, or return au transportationechaigus, aswettastruny duty and retulapplicable.
(d) The carner does not provide a protective service for the transportation of perishable commodities or of commodities re-	piting Rates
protection from heat or cold. Such commodities will be accepted for transportation solely at the shippers risk for disconsistency of the state of the shippers and the shippers are to occasioned by exposure to heat or cold.	
「	based on the gross weight of see shomenful all the control of the gross weight of the gross weight of the gross weight of the gross weight is based on the gross weight is based on the gross of the control of the gross weight is based on the gross weight is a control of the gross weight is based on the gross weight is a control of the gross weight is based on the gross weight is a control of th
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	notice. When the dimensional weight of a snippient exceeds the actual weight, the shipment must be recorded on a UPS Waybill.
No service shall be rendered by the carrier in the transportation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by law or regulation of any shipment which is prohibited by the problem of the prohibited by the prohibited by the prohibited by the problem of the prohibited by the pr	Fractions of a pound will be increased to the next full pound to the country of t
Right of Inspection	Payment for Service
The carrier reserves the right to open and inspect any package tendered to it for transportation.	The carrier's credit terms require payment of all charges in thin seven (7) days after receipt of californ Whell whell wind a UPS Air
Refusal of Packages	Shipping Document, all UPS World ands Express shipments are ground and all charges must be paid by the shipper.
The carrier reserves the right to refuse any package which by reason of the dangerous or any other character of its contents is like	Worldwide Express Service Guarantee
the judgement of the carrier, to soil, taint, or otherwise damage other merchandise or equipment, or which is economic	ally or The carrier guarantees on schedule delivery or OPS Worksman express serves shipments to specific locations; in the buent the carrier
operationally impracticable to transport, or which is improperly packed or wrapped.	the shapping charges to the dayor upon request, subject to the following conditions: $P(I, D) = I - P(I, D)$
Packages must be so packed or wrapped as to pass the tests set forth in National Sale Transit Project 1-A.	X.F.2. (a) The carrier's guaranteed delivory schedule has been obtained by contacting the carrier's Customer Service offfice.
Services Not Provided	reply the pacture boars a passent completed the fact shipping Document showing the consigned consigned reply able
C.O.D., Call Tag, and Delivery Confirmation services are not provided for international shipments.	nd/kess, and postal code.
Provisions for Customs Clearance	(c) The shammer is established to the carrier during the Earlier's publiched pushess hours.
The shipperfunct provide required documentation for customs detarance. By providing required documentation, the shipperfunction are true and correct. Furthermore, the shipperfunction and importation are true and correct. Furthermore, the shipperfunction	affiles (d) All applicable documentation required by the origin and or destination country is completed and included with the shorteness.
that all statements and information relating to exportation and importation are true and correct. Furthermore, the statements that civil and community penalties, including torteiture and sale may be imposed to making talse or fraudulent statements of	[14] 14) 110 contact transfers with the control of
Mildion of U.S. Igwe on exponention (see (3.U.S.C. Seption 305, 22 U.S.C. Section 401, 18 U.S.C. Section 100 and 50 U.S.C.	Abo. derivery and is advised or the consigner's name and appress in other considering and the UPS indicating number.
24(0)	[ 🚉 The guarantee does not apply to suppress which are delayed due to causes beyond the careful for control including, but not inflited to
When a shipment is tendered to the carrier, the carrier is thereby appointed as the agent for performance of customs religious	the totowing: The unavailability or refusal of a person to accept delivery of the subprishe accept foliability authorities action with actual or apparent authority on the premises, acts or omissions of Customs or similar authorities, failure by the shipper or consigned to
allowed by law. The carrier is specified as the nominal consignee for the purpose of designating a custom's brokker's beginning, clearance. Local authorities may require documentation confirming that the carrier has been designated as the nominal consigner.	provide proper documentation, flots, strikes or other labor disputes, civil commetions, disruptions in an or ground transportation
TABLEDIA DISTRICT STORGE Charage, or other expenses incurred as a result of an ection by Customs of Guille by The Erick	networks such as weather project mark, and higher dissisters.
consigned to provide proper documentation of to obtain a required license or permit will be charged to the consigned along w	1 ren i de de la company provides optional santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in Canada which are specified in the UPS (1906 for santiguay derivery to rocations in the UPS (1906 for santiguay derivery to rocations in the UP
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gooly for complex customs clearance procedures which include that are not limited to: the following:	Unless a greater value for inswappe in doctored in writing in the space provided on the UPS Air Shipping Document, the shipping
Clearance procedures involving a government agency other than Customs NAAN YMAGINGO C VERALL OFF	deplaces the released value of Each shiphilips to be no greater than \$100 U.S. For each \$100 U.S. or traction thereof of declared value -
Customs Bonds	for intervalues set all imment an excess of \$100 to 5.1 and additionally change) as statiotion the value than in effect at the time of shipping, will be accounted to the property of the prop
Drawbacks	be assessed. Liability for loss or damage is governed by these Trains and Conditions and shell be timized to proven damages by to an amount not exceeding \$100 U.S. per supment unless a higher value has been obtained by the higher. However, the rules relating to
Formal entries involving more than five tariff lines 883HCF-3, 3550	liability established by the Convention for the Unification of Certain Rules Relating to International Carriage by Air signed at Watsaw.
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Marking Attendance	insurance company or companies as a premium for shipper's internst cargo insurance for the shipper's account and on its behalf.  When the cautier does so, claims for loss or camage to the shipper's properly will be filled and settled by the cardiac on behalf of the
Temporary Impo(t) Bends (71.6)	When the carrier, does so, claims, for lost or comage to the shipper's property. All the filled and settled by the carrier obtail of the applicable insurance from pany. All press interest Cargo Policies are available for inspection at the office of the carrier Cargo Policies are available for inspection at the office of the carrier Cargo Policies.
Correction of Wrong Address	made within six (6) months after delivery of the package or in thu case of non-delivery, within six (6) months after a reasonable time for
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every other reasonable effort to secure the correct address. If the correct address is secured and found to be in the came dest	nation All singments are subject to the terms and conditions contained in the UPS tarris which is maintained at local UPS dirices.
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The consigner's postel odde, telephone number, and papied name are essential information. To ensure prompt derivery,	lways
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include postal code, telephone number, and contact name on the UPS Air Shipping Document.	(2) 6 经股份的

The Portland terminal is presently using natural gas for the boiler and hot oil heater. However, the terminal is operating under an interruptible gas contract. In the event that natural gas becomes unavailable, diesel fuel must be used in the units. The maximum potential emission calculations for existing units and proposed Phase I and Phase II reflect use of diesel fuel for a maximum period of 12 weeks.

Because of the variability of business projections and uncertainty of obtaining a non-interruptible gas supply, Koppers Industries Inc. is requesting Oregon Department Of Environmental Quality (ODEQ), to permit the Portland facility based on the maximum potential emission calculations listed for Phase I.

If you have, any questions please contact Amos Kamerer at (503) 286-3681 or me at (412) 227-2883.

Sincerely,

Traci I. Self

**Environmental Manager** 

Attachments

cc: Amos Kamerer Jim Dietz Kevin Fitzgerald Steve Smith

#### Koppers Industries Inc. Portland Terminal Tank Summary

Tank ID#	Installation Date	Nominal Capacity (gais) (	ontents/(Future Conlents)	Vapor Pressure	Future V/P
POR-T-20	1920	300,000	Storm Water		
POR-T-11	1942	225,000	Storm Water		
POR-T-4	1942	100,000	Storm Water		
POR-T-01	1952	650,000	Storm Water		
POR-T-02	1942	1,000,000	Storm Water		
POR-T-03	1942	100,000	Storm Water		
POR-T-17	1942	20,000	Storm Water		
POR-T-66	1947	100,000	Storm Water		
POR-T-19	1920	20,000	Storm Water		
POR-T-39	1942	20,000	Storm Water	9	
POR-T-12	1942	56,000	Storm Water		·
POR-T-102	1920	9,282	Creosote/(Heavy Oil)	0.0386	0.0302
POR-T-99	1951	200,000	Storm Water		
POR-T-101	1952	759,000	Storm Water		
POR-T-23	1920	20,000	Storm Water		
POR-T-33	1920	45,000	Heavy Oil	0.0302	0.0302
POR-T-34	1942	45,000	Storm Water		
POR-T-53	1920	16,000	Storm Water		
POR-T-65	1947	750,000	Melter/(Liquid Pitch)	0.0077	0.0077
POR-T-67	1947	90,000	Creosote/(Heavy Oil)	0.0386	0.0302
POR-T-74	1920	10,000	Storm Water		
POR-T-V207	1920	15,000	Storm Water	9	
POR-T-SW-1	1920	45,000	Storm Water		
POR-T-SW-2	1920	45,000	Storm Water		
POR-T-SW-3	1920	45,000	Storm Water		
POR-T-SW-4	1920	45,000	Storm Water		
POR-T-SW-5	1920	20,000	Storm Water		<u> </u>
POR-T-SW-6	1920	20,000	Storm Water		
POR-T-68	1947	245,000	Liquid Pitch	0.0185	0.0185
POR-T-18	1920	20,000	Storm Water	Ž	
POR-T-200	1999	2,000,000	Empty/(Liquid Pitch)		0.0121
POR-T-210	2000	2,000,000	Empty/(Liquid Pitch)		0.0121

## Actual Emissions from Existing Units Koppers Industries, Inc., Portland Terminal

	Comments	Commodity	NOx	NOx	VOC	voc	co	CO	SO2	SO2	PM-10	PM-10
Unit		1	(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr	(lb/hr)	Tous/Yr	(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr
Atlas Boiler		Gas	2.82	2.04	0.06	0.04	0.70	0.51	0.08	0.06	0.12	0.09
Hot Oil Heater		Gas	0.81	0.59	0.04	0.08	0.17	0.12	0.03	0.02	0.04	0.03
Fume Recovery System 1,2		NA			12.47	13.01						
Tank 33		Heavy Oil			0.37	0.011						
Tank 67		P1/P13 Distillate			1.18	0.024	1:					
Loading Tank 67 to Rail		P1/P13 Distillate			1.71	0.003						
									1:			
Fugitives		NA NA			0.98	0.266						
Plant Total			3.63	2.63	16.81	13.43	0.88	0.63	0.11	0.08	0.16	0.12

<sup>1</sup> The fume recovery system receives emissions from the following units: T-68, T-65, railcar loading and tank car loading.

<sup>&</sup>lt;sup>2</sup> Hourly and annual VOC emissions from the fume recovery system were calculated using ChemCAD. Annual VOCs were adjusted by 1997 actual operating hours over 8,760 hours.

# Koppers003732

# **Actual HAP Emissions from Existing Units** Koppers Industries, Inc., Portland Terminal

	Benzene	Toluene	Ethylbenzene	p-Xylene	m-Xylene	Phenol	m-Cresol	p-Cresol	o-Cresol	Naphthalene	Quinoline	Biphenyl	Dibenzofuran	Total HAPs
Unit	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)
Atlas Boiler														
lot Oil Heater														
ume Recovery System 1,2										2,521.03	189.67	235.45	1,534.53	4,480.68
Галk 33										0.02	0.02	0.08	0.47	0,58
Tank 67	2.10	1.64	0.71	0.66	0.64	0.09	0.05	0.05	0.10	21.62	0.96	0.63	1.87	31.11
oading Tank 67 to Rail	0.28	0.22	0.10	0.09	0.09	0.01	0.01	0.01	0.01	2.91	0.13	0.09	0.25	4.18
ugitives	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.03	0.04	0.11	0.43
lant Total	2.38	1.86	0.81	0.75	0.72	0.10	0.06	0.06	0.11	2,545.82	190.81	236.29	1,537.23	4,516.98 L
														2.26

<sup>1</sup> The finne recovery system receives emissions from the following units: T-68, T-65, railcar loading and tank car loading.

<sup>2</sup> Armual HAP emissions from the fame recovery system were calculated using ChemCAD. Armual HAPs were adjusted by 1997 actual operating hours over 8,760 hours.

# Koppers003733

# Maximum Potential Emissions from Existing Units Koppers Industries, Inc., Portland Terminal

	Comments	Commodity	NOx	NOx	VOC	YOC	CO	CO	SO2	SO2	PM-10	PM-10
Unit			(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr
Atlas Boiler <sup>t</sup>		Gas	2.82	12.33	0.06	0.25	0.70	3.08	0.08	0.33	0.12	0.5
		Oil/Gas	3.00	12.52	0.06	0.22	0.75	3.13	10.65	1131	0.30	1.24
		MAX	3.00	12.52	0.06	0:25	0.75	3.13	10.65	11.31	0.30	1:24
Hot Oil Heater(backup unit) <sup>1</sup>		Gas	0.81	3.57	0.04		0.17	0.75	0.03		0.04	
		Oil/Gas	1.22	3,97	0.04	0.16	0.31	0.88	4.33	4,60	0.12	0.43
		MAX	1.22	3.97	0.04	0.19	0.31	0.88	4.33	4.60	0.12	0.42
Fume Recovery System 2,3		NA_			12.47	1811						
Tank 33		Heavy Oil			0.37	0.016						
Tank 67		P1/P13 Distillate			0.59	0.024						
2 400.00					0.55							
Loading Tank 67 to Rail		P1/P13 Distillate			1.71	0.003						
Fugitives		NA			0.98	0.568						
Plant Total			4.22	16.49	16.22	19.15	1.06	4.01	14.98	15.91	0.42	1.67

<sup>1</sup> Combustion units may be run on natural gas or #2 fuel oil. However, fuel oil combustion will occur a maximum of 12 weeks during any given year.

<sup>&</sup>lt;sup>2</sup> The firme recovery system receives emissions from the following units: T-68, T-65, railcar loading and tank car loading.

<sup>3</sup> Hourly and annual VOC emissions from the fume recovery system were calculated using ChemCAD.

# Koppers003734

# Maximum Potential HAP Emissions from Existing Units Koppers Industries, Inc., Portland Terminal

	Commodity	Benzene	Toluene	Pyridine	Ethylbenzene	p-Xylene	m-Xylene	Phonol	m-Cresol	p-Cresel	#-Creset	Naphthalene	Quinoline	Biphenyi	Dibentoferan	Total HAPe
Unit		(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(Ib/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)
Atlas Boiler <sup>1</sup>	Gas															
	Oil/Gas															
	MAX															
łot Oil Heater(backup unit) <sup>1</sup>	Gas															
	Oil/Gas															
	MAX															
ume Recovery System 2,3	NA NA											3509.33	264.02	327.76	2136.10	6237.22
ank 33	Heavy Oil											0.03	0.03	0.11	0.68	0.85
ank 67	P1/P13 Distillate	3.06			0.00				0.00							3.06
·																
oading Tank 67 to Rail	P1/P13 Distillate	0.23	0.18		0.08	0.07	0.07	0.01	0.01	0.01	0.01	2.33	0.10	0.07	0.20	3.35
ugitives	NA NA	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.03	0.04	0.12	0,43
	NA.	***************************************		***************************************		000000000000000000000000000000000000000										
Plant Total		3.28	0.18		0.08	0.07	0.07	0.01	0.01	0.01	0.01	3,511.93	264.19	327.98	2,137.10	6,244.89

<sup>1</sup> Combustion units may be run on natural gas or #2 fuel oil. However, fuel oil combustion will occur a maximum of 12 weeks during any given year.

<sup>&</sup>lt;sup>2</sup> The fume recovery system receives emissions from the following units: T-68, T-65, railcar loading and tank car loading.

<sup>3</sup> Annual HAP emissions from the fume recovery system were calculated using ChemCAD.

## Maximum Potential Emissions, Phase I Koppers Industries, Inc., Portland Terminal

	Comments	Commodity	NOx	NOx	VOC	VOC	CO	CO.	SO2	S02	PM-10	PM-10
Unit			(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr
Atlas Boiler¹		Gas	2.82		0.06		0.70		0.08		0.12	
		Oil/Gas	3.00		0.06		0.75		10.65		0.30	
		MAX	3.00	12.52	0.06	0.25	0.75	3.13	10.65	11.31	0.30	1.2
Hot Oil Heater(backup unit) <sup>1</sup>		Gas	0.81	3.57	0.04	0.19	0.17	0.75	0.03	0.14	0.04	0.1
		Oil/Gas	1.22	3.97	0.04	0.16	0.31	0.88	4.33	4.60	0.12	0.4
		MAX	1.22	3.97	0.04	0.19	0.31	0.88	4.33	4.60	0.12	0.4
Fume Recovery System 2,3		NA			12.47	18.11					·	
Tank 33		Heavy Oil			0.37	0.016	<del></del>				······	
Tank 67	·	Heavy Oil			0.15	0.006			***			
Fugitives		NA			0.98	0.568						
New Hot Oil Heater <sup>1</sup>		Gas	1.34	5.87	0.03	0.12	0.34	1.47	0.04	0.16	0.06	0.20
		Oil/Gas	1.42	5.96	0.03	0.10	0.36	1.49	5.04	5,34	0.14	0.5
		MAX	1.42	5.96	0.03	0.12	0.36	1.49	5.04	5.34	0.14	0.52
T-200		Liquid Pitch				Note 4						
Plant Total			5.64	22.45	14.10	19.25	1.41	5.50	20.02	21.26	0.56	2.19

#### NOTES

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- 1 Combustion units may be run on natural gas or #2 fuel oil. However, fuel oil combustion will occur a maximum of 12 weeks during any given year.
- <sup>2</sup> The fume recovery system receives emissions from the following units: T-68, T-65, T-200, railear loading and tank car loading.
- 3 Hourly and annual VOC emissions from the fume recovery system were calculated using ChemCAD.
- 4 VOC Emissions from T-200 are included in the fume recovery system's emissions.

## Maximum Potential HAP Emissions, Phase I Koppers Industries, Inc., Portland Terminal

		Benzene	Toluene	Ethylbenzen <del>e</del>	p-Xylene	m-Xylene	Phenol	m-Cresol	p-Cresol	o-Cresol	Naphthalene	Quinoline	Biphenyl	Dibenzofuran	Total HAP
Unit	Commodity	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yt)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)
Atlas Boiler <sup>1</sup>	Gas														
	Oil/Gas														
	MAX														
	<u> </u>														
Hot Oil Heater(backup unit) <sup>1</sup>	Gas														
	Oil/Gas														
	MAX														
Fune Recovery System <sup>2,3</sup>	NA										3,509.33	264.02	327.76	2,136.10	6,237.2
Tank 33	Heavy Oil										0.03	0.03	0.11	0.68	0.8
Tank 67	Heavy Oil										0.95	0.03	0.02	0.15	1.1
Fugitives	NA NA										0.03	0.00	0.00	0.03	0.0
New Hot Oil Heater <sup>1</sup>	Gas														
	Oil/Gas														
	MAX														
	<u> </u>														
Г-200 <sup>4</sup>	Liquid Pitch														
	<del>  </del>														
Plant Total	1										3,510.34	264.09	327.90	2,136.95	6,239.28

<sup>1</sup> Combustion units may be run on natural gas or #2 fuel oil. However, fuel oil combustion will occur a maximum of 12 weeks during any given year.

<sup>&</sup>lt;sup>2</sup> The fume recovery system receives emissions from the following units: T-68, T-65, T-200, railcar loading and tank car loading.

<sup>&</sup>lt;sup>3</sup> Annual HAP emissions from the fume recovery system were calculated using ChemCAD.

## Maximum Potential Emissions, Phase II Koppers Industries, Inc., Portland Terminal

	Comments	Commodity	NOx	NOx	VOC	voc	CO	CO	SO2	SO2	PM-10	PM-10
Unit		:	(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr	(lb/hr)	Tons/Yr
Atlas Boiler¹		Gas	2.82	**********	0.06	0.25	0.70	Annual An	0.08	********	0.12	0.55
	<u> </u>	Oil/Gas	3.00	*******	0.06	0.22	0.75		10.65	1131	0.30	1,24
	<b></b>	MAX	3.00	12.52	0.06	0,25	0.75	3.13	10.65	11.31	0.30	1.24
Hot Oil Heater(backup unit) <sup>1</sup>		Gas	0.81	3.57	0.04	0.19	0.17	0.75	0.03	0.14	0.04	0.16
		Oil/Gas	1.22	3.97	0.04	0.16	0.31	0.88	4.33	4.60	0.12	0,43
		MAX	1.22	3.97	0.04	0:19	0.31	0.88	4.33	4.60	0.12	0.43
Furne Combustion System 2,3		NA			0.49	2.16						
Tank 33		Heavy Oil			0.37	0.016						
Tank 00		Titally On			0.57	0.010			-			
Tank 67		Heavy Oil			0.15	0,006						
Fugitives		NA			0.98	0.568						
New Hot Oil Heater <sup>1</sup>		Gas	1,34	5.87	0.03	0.12	0.34	1,47	0.04	0.16	0.06	0.26
Trew alot On Aleuter	<u> </u>	Oil/Gas	1.42	5.96	0.03	0.10	0.36	1.49	5.04	5.34	0.14	0.52
		MAX	1.42	5.96	0.03	0.12	0.36	1.49	5.04	5.34	0.14	0.52
T-200		Liquid Pitch				Note 4						
T-210		Liquid Pitch				Note 4						
Plant Total	Maximum		5.64	22.45	2.12	3.30	1.41	5.50	20.02	21.26	0.56	2.19

#### NOTES

5.E.

- Combustion units may be run on natural gas or #2 fuel oil. However, fuel oil combustion will occur a maximum of 12 weeks during any given year.
- The fume combustion system receives emissions from the following units: T-68, T-65, T-200, T-210, railcar loading and tank car loading.
- 3 Hourly and annual VOC emissions from the fume recovery system were calculated using ChemCAD.
- 4 VOC Emissions from T-200 and T-210 are included in the fume combustion system's emissions.

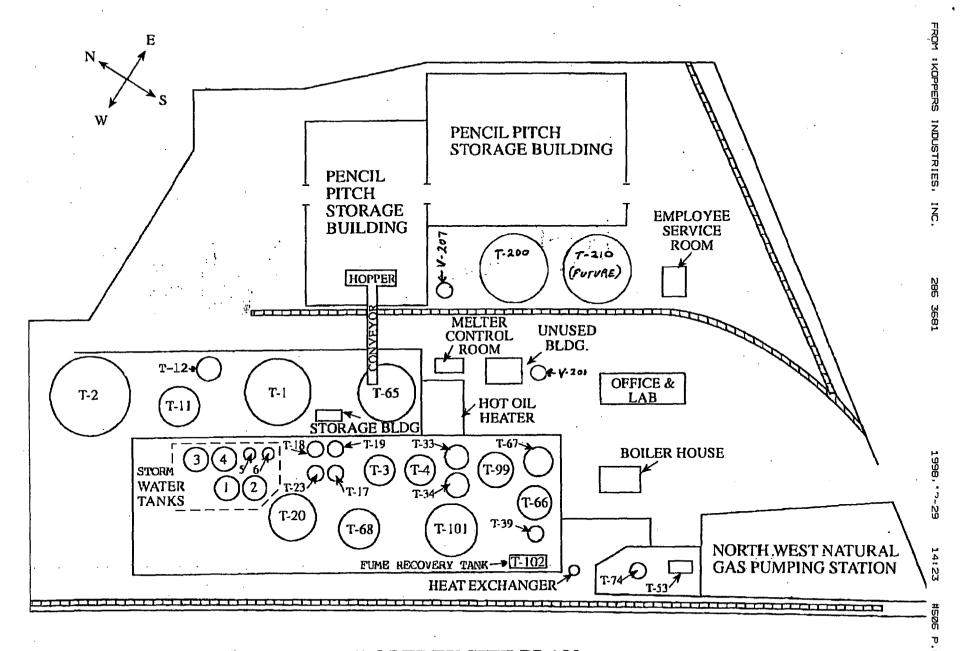
## Maximum Potential HAP Emissions, Phase II Koppers Industries, Inc., Portland Terminal

		Benzene	Toluene	Ethylbenzene	p-Xylene	m-Xylene	Phenol	m-Cresoi	p-Cresol	o-Cresol	Naphthalene	Quinoline	Biphenyl	Dibenzofuran	Total HAPs
Unit	Commodity	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)
Atlas Boiler¹	Gas														
	Oil/Gas														
	MAX														
Hot Oil Heater(backup unit) <sup>1</sup>	Gas														
	Oil/Gas														
	MAX														
Fume Combustion System 2,3	NA										0.43				0.43
Tank 33	Heavy Oil										0.03	0.03	0.11	0.68	0.85
ank 67	Heavy Oil				· · ·						0.95	0.03	0.02	0.15	1.15
ugitives	NA										0.03	0.00	0.00	0.03	0.07
lew Hot Oil Heater <sup>1</sup>	Gas														
	Oil/Gas														
	MAX														
-2004	Liquid Pitch														
T-210 <sup>4</sup>	Liquid Pitch														
														ļ	
Plant Total	1				l						1.44	0.06	0.14	0.85	2.50

<sup>1</sup> Combustion units may be run on natural gas or #2 fuel oil. However, fuel oil combustion will occur a maximum of 12 weeks during any given year.

<sup>&</sup>lt;sup>2</sup> The firme combustion system receives emissions from the following units: T-68, T-65, T-200, T-210, railcar loading and tank car loading.

<sup>&</sup>lt;sup>3</sup> Annual HAP emissions from the firme recovery system were calculated using ChemCAD.



... - 3641 ... 44V

PROPERTY SITE PLAN



Koppers Industries, Inc. 436 Seventh Avenue Pittsburgh, PA 15219-1800

Telephone: (412) 227-2001

Fax: (412) 227-2423

August 21, 1997

DEQ Business Office Oregon Department of Environmental Quality 811 SW Sixth Avenue Portland, OR 97204

Attention:

Ms. Kathy Amidon
Environmental Specialist
Air Quality Section

Re:

Air Permit Initial Application

Multnomah County; File No. 26-2930

Industrial Boiler

Dear Ms. Amidon:

We were advised by the DEQ that a review of the Agency's files revealed that a previous air permit for the manufacture of industrial chemicals was canceled by the Department in June 1977 and that no provision was made to issue a permit for the boiler that remained operational. Due to this oversight by the Department no enforcement action would be taken against Koppers as long as a permit application is submitted for the existing boiler.

Enclosed are the appropriate permitting forms along with check #270594 in the amount of four thousand nine hundred forty-seven dollars (\$4,947.00) to cover payment of the total fees associated with the filing, permitting, application processing, and the compliance determination. This submittal contains duplicate copies of the following completed forms and other informational material for the subject facility:

- DEQ Supplemental Information Form;
- Form AQ101 Administrative Information;
- Form AQ102 Facility Description;
- Form AQ210 for Fuel Burning Devices;
- Form AQ402 Plant Site Emission Detail Current/Future Operations
- Summary Spreadsheet for site maximum potential emission
- USGS map of facility location;
- Site Plan for present Koppers Industries, Inc. Portland Plant
- Site Plan for future ship unloading additions to KII Portland Plant

If you have any questions, please call Mr. Amos Kamerer, Plant Manager, at 503-286-3681 or me at 412-227-2883.

Sincerely yours,

William E. Swearingen

Manager, Environmental Programs

**Enclosures** 

cc:

A. S. Kamerer; Portland Plant

bcc:

W. W. Turner; K-1600 R. D. Collins; K-1700

S. T. Smith; K-1800

C:\WPWIN60\PORTLAND\AIR\_BOIL.LTR

THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK - HOLD AT AN ANGLE TO VIEW

KOPPERS

DATE: AUGUST 21 1997

PAY TO THE ORDER OF: OREGON ST DEPT ENVIRON QUALITY

\$4,947.00

FOUR THOUSAND NINE HUNDRED FORTY SEVEN AND 00/100 ONLY

811 IS W SIXTH AVE PORTLAND OR 97204

Payable through Mellon Bank (DE) N.A. Wilmington, DE 19899

KOPPERS INDUSTRIES, NC.

# 270594# # # 031100047#

2-943 678



1.

Name of Facility

# OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY SUPPLEMENTAL INFORMATION FORM

# AIR, WATER, SOLID WASTE AND HAZARDOUS WASTE PERMITS AND REGISTRATIONS MODIFICATIONS TO EXISTING FACILITIES

Unnecessary delays during permit review or facility construction often can be eliminated when potential issues and areas of overlap are identified early in the permit process. With this in mind, the Oregon Department of Environmental Quality (DEQ) is testing an integrated approach to permit processing. The purpose of this "cross-media" approach is to help the applicant determine which pre-construction environmental permits will be needed, and help DEQ expedite the permit process. The approach also helps the applicant and DEQ analyze potential impacts of the proposed modification on all environmental areas of concern; helps prevent any inadvertent transfer of pollutants from one media to another, such as from air to land; provides an opportunity to look at overall environmental impacts from a facility and net environmental benefits from a proposal; and increases opportunities to identify pollution prevention alternatives.

The following questions are meant to be a screening tool to help identify potential areas of concern and, if necessary, help DEQ establish a cross-media workgroup for your facility. If you are unsure which regulations apply to your facility, several DEQ publications and technical assistance programs can help you find answers. For a copy of the Oregon Environmental Permits Handbook, or if you have other questions, please telephone the person identified in the cover letter included with this form. You also can telephone DEQ's Technical Assistance and Service Coordinator at (503) 229-5946, or toll-free (800) 452-4011, to be referred to the appropriate program or to arrange a pre-application meeting with permit program staff.

Koppers Industries, Inc.

Address or Location of Facility 7540 NW St. Helens Road Portland, OR 97210-3663
Latitude/Longitude or other precise locational data for the facility, if available (if you need assistance in determining latitude and longitude coordinates, please contact DEQ at 229-5946)
Latitude 45:34:38 Longitude 122:45:32
Name of Contact Person Amos S. Kamerer
Phone Number of Contact Person 503-285-3681
Please briefly tell us what kind of business you operate (principal products and services).
Terminal operations for creosote and coal tar pitches.
Please list any local, state or federal environmental permits or registrations you may have from the list below. Please check all that apply. Please enter the permit or registration number if available (or just indicate YES if the number is not readily available); or indicate N/A if the permit does not apply to your facility. Please indicate which of these permits
you intend to apply for or modify at this time.
a. Air Permit (air emissions) X_yesN/A
a. All fertilit (all emissions)

	Permit Number, if known	modify? yes n	0
	c. Wastewater Discharge Permit (state or federal)	yes X N/A	
	Permit Number, if known	modify?yesn	o
	d. Wastewater Pretreatment Permit (local)	yes _X_N/A	
	Permit Number, if known	modify?yesn	0
	e. Hazardous Waste Generator Registration	yes <u>x</u> N/A	
	EPA ID Number, if known	modify?yesr	10
	f. Hazardous Waste Permit (RCRA Part B)	yes _xN/A	
	g. Solid Waste Disposal Permit	yes <u>X</u> N/A	
	Permit Number, if known	modify?yesn	0
	h. Underground Storage Tank Registration	yes XN/A	
	Permit Numbers, if known	modify?yes	_no
	i. Environmental Cleanup/Superfund Site	yes X_N/A	
	j. Voluntary Cleanup Registration	yes x_N/A	
4.	Please describe the proposed modification to your fainclude a description of the proposed changes to the approximate amounts used; anticipated volumes of air, water and land; proposed control technologies; be needed. If you treat your wastes prior to dischaplan to manage or dispose of treatment residuals (a Please use a separate sheet for your description.	e facility; input chemicals and wastes, emissions or discharges to and any new energy sources that r rge or release, please indicate how	the might
5.	Many companies are able to design their facilities at chemicals used and pollutants discharged to the enhelpful in the permit review process and public hear pollution prevention concepts and technologies into x yesnodon't know  Paving at potential spill areas. Recyclif yes, please briefly describe the design elements at Also include any pollution prevention activities alreause a separate sheet for your description.	vironment. This information may brings. Have you incorporated any the design of your facility?  Le spill material.  Ind pollutant reductions anticipated	e i.
	If you would you like any information (written publi prevention from our Waste Reduction Assistance P toll-free (800) 452-4011.		
6.	Facilities applying for environmental permits may enuse, noise, traffic, odors or other community issues your community regarding your facility? yes		
	If yes, please indicate what the concerns are and huse a separate sheet for your description.	ow you plan to address them. Plea	ase
DEQ st	you for taking the time to fill out this form. If you heaff person listed in the cover letter, or our Technical 229-5946, or toll-free (800) 452-4011.  (Note: questions 4, 5 and 6 should be answered o	Assistance and Services Coordina	
PILOT	10/25/93 -2-		

\_\_yes X\_N/A

b. Indirect Source Consuluction Permit (large parking lots)

•	EXT NEW RNW MOD SM
Legal Company Name	2. Facility Name (if different from legal company name)
Koppers Industries, Inc.	Koppers Industries, Inc.
egal Company Name	Facility Name
436 Seventh Avenue	7540 NW St. Helens Road
failing Address	Mailing Address
Pittsburgh, PA 15219-1800	Portland, OR 97210-3663
ity, State, Zip Code	City, State, Zip Code
412-227-2001	503-285-3681
rea Code and Telephone Number	Area Code and Telephone Number
. Facility Location	4. Site Contact
SAME	Amos S. Kamerer; Plant Mgr.
treet Address (if different from mailing address)	Name and Title of Contact Person at Site
lity, Zip Code	503-285-3681  Area Code and Telephone Number
	1200 Cook and Assignment Values
Multnomah County	
. Government Facility Indicator	6. Other DEQ Permits
	NPDES Permit No. 100419
Signature	
I hereby apply for permission to discharge air contaminants in the Sta contained in this application, and the schedules and exhibits appended	ate of Oregon, as stated or described in this application, and certify that the informati d hereto, are true and correct to the hest of my knowledge and helief
Amos S. Kamerer	Plant Manager
Name of official (printed or typed)	Title of official
december of A board	
Signature of official	Date (mm/dd/yy)
•	$\cdot$
PRINCIPAL PROPERTY OF THE	NUMBER OF THE COLOR OF THE COLOR FEED
PPLICATION FEE INFORMATION ON R	
PPLICATION MUST BE SUBMITTED, WIT USINESS OFFICE:  811 SW SIXTH AVENU	TH ALL FEES REQUIRED, TO THE DEPARTMENT

Oregon Department of Environmental Quality Air Contaminant Discharge Permit Application

. Page AQ101-1

Type of Business (OAR 340-28-1750 Table 4 entries)						
Industrial Organic Chemicals	SIC 2865 or 2869					

			_ amos - for DEQ
	Fee Information		purposes, boilers are listed as 51C
SIC Code	Application Processing	Compliance <u>Determination</u>	4961. Holy
4961	\$1540.00	\$1332.00	\$2872.00
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			:
Standard filing fee			\$75.00
Fee: Permitting Fe	ee .	(Aut=F)	\$2000.00
Fee:	·		
Fee:		· · · · · · · · · · · · · · · · · · ·	·
Fee:			<del></del>
TOTAL FEES			\$4947.00

1.	Facility name	Koppers Industries, Inc.		2. Permit # N/A
	·			
	Description	n of facility		
				sote, coal tar pitches, and alli
		•		ted tanks and shipped to custome
	in the	northwest states via truck and	rail transporte	rs.
	Due to	changing market conditions, KI	I is planning to	add additional heated storage
	tanks t	o the facility. The tanks will	be heated by a	hot oil system. An additional
	8.0 mil	lion BTU/HR natural gas fired b	ot oil heater w	ill be needed when the tanks are
	install	ed. Potential tank emissions	of VOM will be c	ollected and ducted to the
	propose	d new hot oil heater and will h	e incinerated a	t a 98% or greater destruction
	efficie	ncy. A new heated pipeline ins	stallation is al	so planned within the next
	two yea	rs.		
	<del></del>		· · · · · · · · · · · · · · · · · · ·	
4.	Seasonal	or year-round operation?		
7.	Ocasonar	or your sound operation:	operation	
	<del></del>	<del></del>		
			<del></del>	
5.	Operating 24	g schedule		
	7	hours/day	•	
		days/week		
	6000	hours/year		
6.	Attach di	agram		
7.	Attach li	ne/block drawing		
8.	Attach lo	cation map	•	
	•	•		

1. Fa	acility name Koppers Industries, Inc. 2.1	Permit #	N/A				
<del></del>	<del>-</del>						
Fuel F	Burning Device Information						
3.	ID number						
4.	Existing or future? Existing						
5.	Date commenced (mm/dd/yy)Circa 1965						
6.	Date installed/completed (mm/dd/yy)Circa 1965		_				
7.	Special controls None						
8.	Manufacturer North American		<del></del>	- <u>1</u>			
9.	Description of device Fire tube steam boiler	for he	- eating	1	•		
			·				
10.	Firing method Normal dual fuel burner	······································					
,							
Opera	ating Schedule						
11.	Seasonal or year-round?Year-round	_					٠
	a. Months in operation 12						
12.	Projected maximum hours/day 24						
13.	Projected maximum days/week7						
14.	Projected maximum weeks/year						
				and the second			
Produ	uction Information			; <u>\$</u>			
15.	Rated design capacity (input) 21,000,000 BTII/h (speci	fy units)				**	
16.	Projected maximum annual operation 126,000 M BTU	(speci	fy units)	į 1	•		
Ash C	Generation and Disposal Information					•	
17.	Quantity generated None tons/yr						
18.	Description of ash disposal method N/A						
•					····		

## Fuel Usage Information

19. Fuel usage	- Primary Fuel	Backup A	Backup B	Backup C
a. Type/grade of fuel	Nat. gas	Diesel oil	N/A	N/A
b. Average sulfur content (% by wt.)	0.01 GR/SCF	0.3		
c. Design hourly usage (specify units/hr)	21 MCF/HR	140 GAL/HR		·
d. Projected maximum annual usage (units/yr)	184 MMCF/Y	100,000 GPY	·	·

20.	Stack h	eight 40 ft		
21.	Flow ra	ate 4550 dscf/min at maximum	firing rate.	
Monit	oring Inf	ormation		
22.	Monito	ring equipment		
	a.	steam pressure gauge (y/n; if y, recorder?)	Yes - no recorder	
	b.	steam flow gauge (y/n; if y, recorder?)	Yes - recorder	
	c.	oxygen analyzer (y/n; if y, recorder?)	No	
	d.	visible emissions monitoring (y/n) No		
	e. ·	sulfur dioxide monitor (y/n) No		
	f.	other monitor (y/n; if y, specify; if y record	er?) No	
			•	
Pollut	ion Cont	rol Information	No	

	f Environmental			

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1. Facility name	Koppers Industries, Inc.	2. Permit # N/A

#### 3. Emissions Data

a. Emissions Point	Production	d.	Emission Factors			Emissions		
	b. Short-term (specify)	c. Annual (specify)	Pollutant	e. Short-term	f. Long-term	g. Reference(s)	h. Short-term (specify)	i. Annual (tons/yr)
#1	21.0 MBTU/HR	4.4 TBTU	$NO_{\mathbf{x}}$	140 1b/MCF	140 1b/MCF	DEQ	2.8 1b/HR	12.3 TPY
#1	11	11	voc	2.8 1b/MCF	2.8 1b/MCF	DEQ	0.05 1b/HR	0.3 TPY
#1	11	11	CO .	35 1Ъ/МСГ	35 1b/MCF	DEQ	0.7 1b/HR	3.1 TPY
#1	11	11	PM	2.5 1b/MCF	2.5 1b/MCF	DEQ	0.05 1b/HR	0.2 TPY
#1 <sub>.</sub>	11	11	so <sub>2</sub>	3.8 1b/MCF	2.6 lb/MCF	DEQ	0.05 1b/HR	0.2 TPY
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# **MAXIMUM POTENTIAL EMISSION PORTLAND TERMINAL**

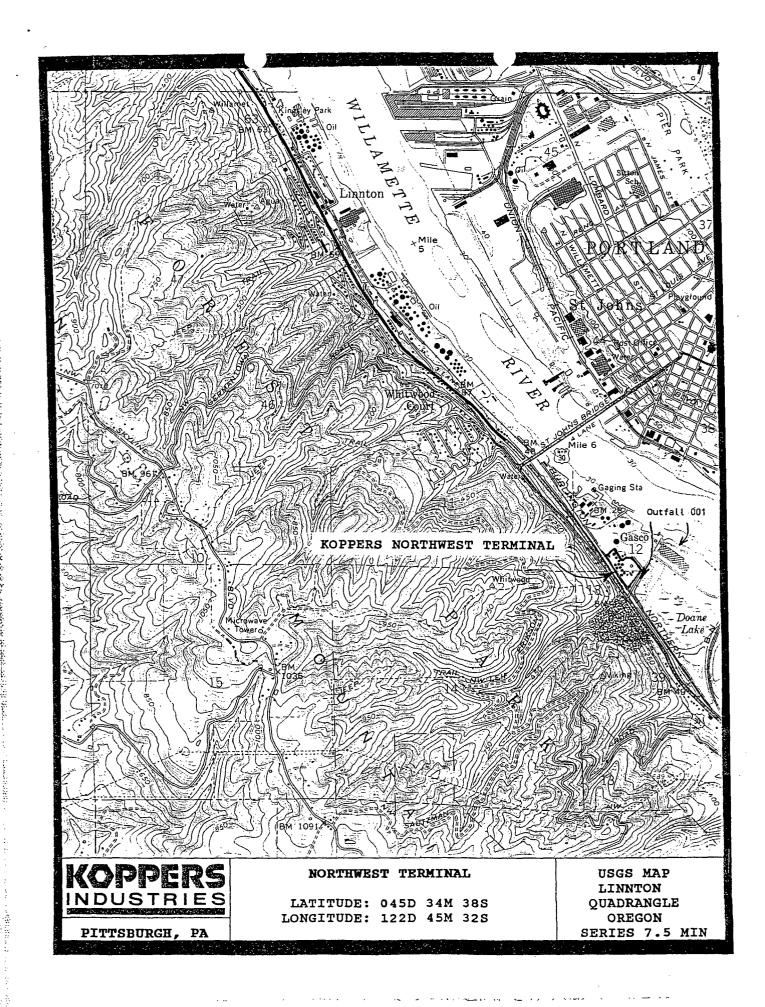
SOURCE		INPUT	FUEL	FUEL	NOx	NOx	VOC	VOC	CO	CO	SO2	SO2	PM	PM
		MM BTU/Hi		USED	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr	lb/MMcuft		lb/MMcuft	Tons/Yr
Atlas Boiler	long term	21	N Gas/Oil	Gas	140	12.334	2.800	0.247	35.000	3.084	3.800	0.335	2.500	0.220
	short term	21		Gas	140						2.600	0.229		
Hot Oil Heater	long term	8.5	N Gas/Oil	Gas	100	3.566	5.300	0.189	20.000	0.713	3.800	0.136	2.500	0.089
New H. O. Heater	long term	8	N Gas/Oil	Gas	100	3.356	5.300	0,178	20,000	0.671	3.800	0.128	2.500	
						0.000		0.000		0.000		0.000		0.000
New Pitch Tanks	no controls					0.000		20.040		0.000		0.000		0:000
	98% control					0.000		0.401		0.000		0.000		0.000
ProcessTotals						6.922		0.768		1,384		0,263		0.173
Plant Total						19.257		1.014		4.468		0.598		0.393

Natural Gas = 1044 BTU/cuft

SO2 long term maximum based on 13,200 grains sulfur per millin cubic feet natural gas, determined by Northwest supply. SO2 short term maximum based on 9,100 grains sulfur per millin cubic feet natural gas, determined by Northwest supply.

Emission factors are taken from DEQ table - Air Quality Division 2/23/93

Calculation for criteria pollutants = (max input in mm BTU/hr) X ( Criteria emission factor) X (8760 hrs/yr)/(2000 lbs/ton \* 1044 BTU/SCF)



Copy of 1997 submitted
for preference.

Needs to be returned
to partland when
the man sheets are
completed



Koppers Industries, Inc. 436 Seventh Avenue Pittsburgh, PA 15219-1800

Telephone:

(412) 227-2001

(412) 227-2423 Fax:

August 1, 1997

**DEQ Business Office** 811 SW Sixth Avenue Portland, OR 97204

EXPRESS MAIL Deliver 8/4/97

Attention:

Mr. Elliott Zais

Re:

Renewal Application NPDES Permit No. 101003 File No. 47430 Multnomah County OR 000077-9

Dear Mr. Zais:

Enclosed is check #270572 in the amount of One thousand twenty-five dollars (\$1,025) to cover the \$50.00 filing fee and the \$975.00 processing fee and the following completed forms for the subject facility:

- DEQ application form;
- EPA Form 2C NPDES;
- Facility waste water flow plan;
- USGS map of facility location;
- CHEMCOA 1035-A material safety data sheet.

Terminal operations and stormwater handling and treatment have not changed significantly since the issuance of the current permit. No wastewater is generated from operating processes at this facility; however, a minor amount of wash water is generated from time to time from vehicle cleaning. The resultant solids/water mixture is drained to a catch basin to recover the reusable product. This equipment cleaning operation has been added to the waste water flow plan for this facility. The cleaning procedure is enhanced if a proprietary cleaner (CHEMCOA 1035-A) is sprayed on the vehicle prior to hosing it down with city water. Vehicle washing occurs approximately six to seven times per year; hence KII anticipates that CHEMCOA 1035-A usage would be less than 55 gallons per year. Since the primary purpose of the equipment cleaning is to remove solid particles (which are recovered and recycled) rather than oils, KII believes that oil emulsification will not be a significant problem and requests that the use of CHEMCOA 1035 be provided for in the renewed NPDES permit. Attached is a Material Safety Data Sheet for CHEMCOA 1035.

You may recall that heavy rainfall caused flooding in the plant several times over the past five years and resulted in shut down of the operations due to our inability to remove stormwater fast enough. Improvements to the stormwater handling facilities at the plant are underway and will be completed by year end. These improvements will not change the current methods of treatment but will increase the maximum discharge rate of stormwater from 120 gpm to approximately 700 gpm.

These matters notwithstanding, KII believes that the current outfall limitations provide adequate protection to the environment and achieves a reasonable cost benefits ratio. We encourage the Agency to reissue the NPDES permit with the modifications that were requested while maintaining the existing outfall limitations.

If you have any questions, please call Mr. Amos Kamerer, Plant Manager, at 503-286-3681 or me at 412-227-2883.

Sincerely yours,

William E. Swearingen

Manager, Environmental Programs

Enclosures

A. S. Kamerer, Portland Plant

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DEQ USE ONLY - REGIONAL OFFICE
Received:
Application No.: File No.: 47437
EPA No.: OR 0000 17-9
Mail ID #2/#9:
Hydrocode: DOC Conf:

# APPLICATION FOR RENEWAL OF NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPDES-R)

#### STATE OF OREGON

(Attach additional sheets if necessary.)

/	u	) -	N	WR				
	DE	Q U	SE 0	NLY -	BUS	INES	S OFFI	CE
	Date	Re	ceiv	ed:	Mak	With	TO SAM LEGIS	MARKET.
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П	NO	i Patrio	1550			15, 12, 15,000	997. I	
				SHEET.		JAN.		14.74
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	A. REFERENCE	INFO	RM)	ATTION .					
1	Koppers Industries, Inc.  Legal Name of Applicant	4Alternate Responsible Official							
_	Northwest Terminal Facility Name	Title '							
2	7540 Northwest Saint Helens Road								
	Mailing Address Portland OR 97210-3663	Address or Location Phone							
_	Portland         OR         97210-3663           City         State         Zip	). PIG		Permit No.:					
	•	Fil	e No.	:					
3	Amos S. Kamerer  Responsible Official	Da	te Ex	pires:	11/	30/97			
	Plant Manager	6. En	ter Si	te Location b	by <b>Latitud</b>	le and Long	gitude:	•	
-	Title	i Г		LATITUDE		Ţ——— <u> </u>	LONGITUD	E	
	(503) 286-3681	1. I	Deg.	2. Min.	3. Sec.	1. Deg.	2. Min.	3. Sec.	
-	Address or Location Phone	45	5	34	38	122	45	32	
1. H	(Other) Stormwater discharged to Willamet  **B.** GENERAL  **ave the treatment or disposal methods employed, as indicated in probabilities?  **Description**  **The stormwater discharged, as indicated in probabilities of wastes discharged, as indicated in propolication was submitted?  **Description**  **Description**  **The stormwater discharged to Willamet and Stormwater and Sto	<b>QUE</b> vious app	ST/	ions, been al					
2. P	Tany changes in operations or waste quantity or quality are anticipate lease attach a brief report which indicates your progress in meeting HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THE OWLEDGE AND BEVIEF Vice Propagative (See Instructions)	d in the requir	near f emen	uture, please	attach an e	explanation or present p	ermit.		
	This form must be accompanied with the	appropri	iate E	PA form 2B,	, 2C, 2D, o	r 2E.			

# INSTRUCTION: PERMIT RENEWAL APPLICATION

- A. Reference Information: Complete the required information in detail. If there has been a name change, address change or change in personnel since the last application, please make a special note to that effect.
- B. **General Questions:** If more space is needed than provided on the application form, please attach as many additional pages as necessary in order to supply whatever explanation or diagrams are needed to update the treatment and disposal methods used and the characteristics of the waste discharged or otherwise disposed.

## C. Special Questions and Requested Information:

- 1. Please elaborate on any proposed expansions, cutbacks, improvements or changes of any kind that will or may affect the quantity or quality of pollutants discharged.
- 2. Each condition of your present permit should be reviewed and an assessment made as to the success you have had in meeting the requirements and limitations.

## Signature on Application:

#### DEFINITION:

Signature Line — "Legally Authorized Representative"

- Corporation By apprincipal executive officer of at least the level of vice president;
- Partnership or Sole Proprietorship By a general partner on the proprietor (owner), respectively, or
- Municipality, State, Federal, or other Public Facility By either a principal executive officer or ranking elected official.

#### Other Instructions:

Submit this application and required fees (attached) as soon as possible. They should be submitted at least 180 days prior to the expiration of your present permit.

Please return Application Fee and Application to: Department of Environmental Quality, Business Office, 811 SW 6th Avenue, Portland, OR 97204

DEQ-WQ-IW\WH5208.DOC (8/96)

EPA I.D. NUMBER (copy from Item I of Form 1) ORDO27734359

OMB No. 2040-0086 Approval expires 5-31-92

26 NPDES U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS

Consolidated Permits Program

NUMBER (Ilst)	II, list the latitude and longitude of B. LATITUDE			C. L	ONGITUE	E	D DECENTION WATER AND A
	1, 084.	2, M/N.	3, 34C.	1. DEG.	2. MIN.	3. 5 g C .	D. RECEIVING WATER (name)
001	45	34	38	122	45	32	Willamette River
					,		
		}					
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#### II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUT-	2. OPERATION(S) CONTRIBUTI	NG FLOW	3. TREATMENT	
1.OUT- FALLNO (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1
001	Stormwater	27,000 gal/mo.	Neutralization if needed,	2K 4A
	Boiler Blowdown		then discharged to surface	IU
			water	
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			·	
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OFFICIA	L USE ONLY (effluent guidelines sub-categories)	<u> </u>		_ <del></del>

<del></del>								····				
						3. FREC	UENCY	a. FLOV		4. FLOW	A. FLOW	
OUTFALL		2. OPER	ATION	1/5/		a. DAYS	D. MONTHS	a. rLov		(specify w		C DÚR
(list)		CONTRIBUTING FLOW (list)				PER WEEK (specify average)	(specify average)	1, LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	ATION (in days
001	Stor	rmwater				0.5	9	2.7	6.0	82.5/mo	180/mo	244
	<b></b>			<u>.</u> .	an cambring on a same							
PRODUCTIO							A section Class	Motor Action	********			
. Does an efflu MYE		ete Item III-B		uigated	by EPA und	er Section 30	4 of the Clean		to Section IV			· .
. Are the limit		the applicable lete Item III-C		nt guide		ed in terms of	production (d		ire of operation IV			
. If you answe used in the	red "yes applicabl	'' to item ili-B e effluent gui	, list the deline,	e quant and in	ity which re dicate the a	presents an a ffected outfal	ctual measure ls.	ement of your	level of produ	uction, expres	sed in the terr	ns and un
				1. 4	VERAGE D	AILY PRODUC	CTION					ECTED
B. QUANTITY FE	RDAY	b, units of	MEASI	JRE.	•	C. OP	ERATION, PROD (SDE	OUCT, MATERIA	L, ETC.		(list outfa	FALLS Il number
		-										
									3			
	!										}.	
							·					
. IMPROVEM	ENTS	的主义的	A. J. No	(1) des			ACCEPTANCE.	经 为于人物	等名字。 表。	erika eskala		
. Are you now water treatm but is not lin or loan cond	nent equi; mited to,	oment or prac	tices o tions, a	r any o dminist	ther enviror rative or enf	mental progra	ams which ma ers, enforcem	ay affect the ent compliant	discharges de	scribed in this tters, stipulatio	application?	This inclu
DENTIFICAT AGREE	ION OF		2 8. NO.		TED OUTF		3. в	RIEF DESCR	IPTION OF F	ROJECT	4. F	ince 62 En 122
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EPA Form 3510-2C (Rev. 2-85)

	A, V-B, and V-C are included on separate sheets		
Use the space below to its discharged from any outf possession.	it any of the pollutants listed in Table 2c-3 of table. For every pollutant you list, briefly describe	the reasons you believe it to be pre-	ive reason to believe is discharged or n sent and report any analytical data in
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Quinoline	Coal Tar Constituent		
•			
	·		•
	,	· ·	
•			
•			
			•
POTENTIAL DISCHARGE	S NOT COVERED BY ANALYSIS	enting by sometiment and the	Barrer Wall Control (1980)
product?	V-C a substance or a component of a substance v	vnich you currently use or manufactu	re as an intermediate or final product
	YES (list all such pollutants below)	NO (80 to	Item VI-B)
Total Phenols			
Benzene			
Toluene			
Phenols			•
Acenaphthene Acenaphtylene			
Chrysene ·			
Fluoranthene			
Fluorene			
Naphthalene			
Naphthalene Phenanthrene Pyrene	·	•	

BIOLOGICAL TOXICITY TESTING DATA  Do you have any knowledge or reason to believe th receiving water in relation to your discharge within	nat any biological test for acute or chronic toxic the last 3 years?	ity has been m	nade on any of yo	our discharges or on a
<u>_</u>	and describe their purposes below)	٦	NO (go to Section	· VIII)
		•		
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	rrned by a contract laboratory or consulting fire ress, and telephone number of, and pollutants such laboratory or firm below)		NO (go to Sectio	n IX)
		□ 7. TE	NO (go to Section LEPHONE code & no.)	n IX) D. POLLUTANTS ANALYZE (list)
YES (list the name, addr analyzed by, each s	ress, and telephone number of, and pollutants such laboratory or firm below)	C. TE	LEPHONE	Form 2C Section V Parts A, B, C
YES (list the name, addr analyzed by, each s	ress, and telephone number of, and pollutants such laboratory or firm below)  B. ADDRESS  7133 N. Lombard Street	C. TE	LEPHONE code & no.)	B. POLLUTANTS ANALYZE (list)  Form 2C  Section V
YES (list the name, addr analyzed by, each s	ress, and telephone number of, and pollutants such laboratory or firm below)  B. ADDRESS  7133 N. Lombard Street	C. TE	LEPHONE code & no.)	Form 2C Section V Parts A, B, C
YES (list the name, addr analyzed by, each s	ress, and telephone number of, and pollutants such laboratory or firm below)  B. ADDRESS  7133 N. Lombard Street	C. TE	LEPHONE code & no.)	Form 2C Section V Parts A, B, C
YES (list the name, addr analyzed by, each s	ress, and telephone number of, and pollutants such laboratory or firm below)  B. ADDRESS  7133 N. Lombard Street	C. TE	LEPHONE code & no.)	Form 2C Section V Parts A, B, C
YES (list the name, addr analyzed by, each s	ress, and telephone number of, and pollutants such laboratory or firm below)  B. ADDRESS  7133 N. Lombard Street	C. TE	LEPHONE code & no.)	Form 2C Section V Parts A, B, C
YES (list the name, addr analyzed by, each s	ress, and telephone number of, and pollutants such laboratory or firm below)  B. ADDRESS  7133 N. Lombard Street	C. TE	LEPHONE code & no.)	Form 2C Section V Parts A, B, C
YES (list the name, addr analyzed by, each s	ress, and telephone number of, and pollutants such laboratory or firm below)  B. ADDRESS  7133 N. Lombard Street	C. TE	LEPHONE code & no.)	Form 2C Section V Parts A, B, C
A. NAME  Columbia Inspection, Inc.	ress, and telephone number of, and pollutants such laboratory or firm below)  B. ADDRESS  7133 N. Lombard Street	C. TE	LEPHONE code & no.)	Form 2C Section V Parts A, B, C
A. NAME  Columbia Inspection, Inc.  C. CERTIFICATION	Pess, and telephone number of, and pollutants such laboratory or firm below)  B. ADDRESS  7133 N. Lombard Street Portland, OR 97203	(503)	286-9464	Form 2C Section V Parts A, B, C Full Scan
A. NAME  Columbia Inspection, Inc.  CCERTIFICATION  Certify under penalty of law that this document are assure that qualified personnel properly gather and those persons directly responsible for gathering the	Pess, and telephone number of, and pollutants such laboratory or firm below)  B. ADDRESS  7133 N. Lombard Street Portland, OR 97203	(503)	LEPHONE code & no.)  286-9464  Dervision in according errors or per nowledge and bei	Form 2C Section V Parts A, B, C Full Scan  dance with a system designersons who manage the system lief, true, accurate, and comple
A. NAME  Columbia Inspection, Inc.  Columbia Inspection, Inc.  X. CERTIFICATION  I certify under penalty of law that this document are assure that qualified personnel properly gather and those persons directly responsible for gathering the I am aware that there are significant penalties for A. NAME & OFFICIAL TITLE (type or print)	ress, and telephone number of, and pollutants such laboratory or firm below)  B. ADDRESS  7133 N. Lombard Street Portland, OR 97203  and all attachments were prepared under my did devaluate the information submitted. Based on the information, the information, including the prepared under the prepared under the prepared under the prepared under my did to the information, the information, including the prepared under the prepared	(503)	286-9464  2ervisian in accordithe person or per inowledge and bei fine and imprisor	Form 2C Section V Parts A, B, C Full Scan  dance with a system designer sons who manage the system lief, true, accurate, and complete
A. NAME  Columbia Inspection, Inc.  Columbia Inspection, Inc.  Certification  Certify under penalty of law that this document are assure that qualified personnel properly gather and those persons directly responsible for gathering the lam aware that there are significant penalties for	Pess, and telephone number of, and pollutants such laboratory or firm below)  B. ADDRESS  7133 N. Lombard Street Portland, OR 97203	(503)	286-9464  2ervisian in accordithe person or per inowledge and bei fine and imprisor	Form 2C Section V Parts A, B, C Full Scan  dance with a system designersons who manage the system designers and complement for knowing violations (area code & no.)
A. NAME  Columbia Inspection, Inc.  Columbia Inspection, Inc.  X. CERTIFICATION  I certify under penalty of law that this document are assure that qualified personnel properly gather and those persons directly responsible for gathering the I am aware that there are significant penalties for A. NAME & OFFICIAL TITLE (type or print)	ress, and telephone number of, and pollutants such laboratory or firm below)  B. ADDRESS  7133 N. Lombard Street Portland, OR 97203  and all attachments were prepared under my did devaluate the information submitted. Based on the information, the information, including the prepared under the prepared under the prepared under the prepared under my did to the information, the information, including the prepared under the prepared	(503)	286-9464  286-9464  pervision in according the person or per nowledge and bei fine and imprisor b. Phone No.	Form 2C Section V Parts A, B, C Full Scan  dance with a system designer sons who manage the system lief, true, accurate, and complement for knowing violations (area code & no.)

EPA Form 3510-2C (8-90)

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages.

SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Ilem 1 of Form 1)

ORDO27734359

V. INTAKE AND ÆFFLUENT	CHARACTERISTICS (continued	from page 3 of Form 2-C)
------------------------	----------------------------	--------------------------

OUTFALL NO.

PART A - You n			2	. EFFLUENT	:			3, UN	IITS		TAKE (option	al)
1. POLLUTANT	a. MAXIMUM	DAILY VALUE	b. MAXIMUM 3	O DAY VALUE	c.LONG TERM	AVRG. VALUE	J d. NO. OF	(specify i	f blank)	8, LONG	TERM	b. NO. OF
	(I)	[2] MASS	(1) CONCENTRATION	(2) MASS	(I)	. (2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(I)	(2) MASS	ANALYSES
a. Biochemical Oxygen Demand (BOD)	6						1	mg/l	lbs			
b. Chemical Oxygen Demand (COD)	9						. 1	mg/1	lhs	÷		
c. Total Organic Carbon (TOC)	7.3	3	٠.٠				1	mg/l	lbs			
d. Total Suspended Solids (TSS)	<1.0	) ND	·				7_	_mg/l	lbs			
a. Ammonia (as N)	<1.0	ND					1	mg/1	lbs			
. Flow ,	175,00	0	VALUE 2	7,000	VALUE 1	8,000	8	N/A	gal	VALUE		
g. Temperature (winter)	VALUE 14		VALUE	14	VALUE		3	°C		VALUE		
n. Temperature (summer)	VALUE 18		VALUE	18	VALUE	·	3	°C	· · · · · · · · · · · · · · · · · · ·	VALUE		
i. pH	MINIMUM 6 0	MAXIMUM 7 A		MAXIMUM 7 A			16	STANDAR	DUNITS		><	

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

	2. MA	יאי אא			3, 8	EFFLUENT					NITS	1		AKE (options	il)
ANT AND CAS NO.	â. HE-	b. se-	a, MAXIMUM D	AILY VALUE	b. MAXIMUM 3	DAY VALUE	CLONG TERM	AVRG. VALUE	d NO. OF		b. MASS		a. LONG	TERM E VALUE	A NO. OF
(if available)	SENT	AS.	CONCENTRATION	(2) MASS '	CONCENTRATION	(2) MASS .	CONCENTRATION	(2) MASS	ANAL- YSES	TRATION	D. MA35	CONC	(I) ENTRATION	(2) MASS	YSES
a. Bromida (24959-67-9)		х	<0.01	ND		-			1	mg/l	lbs				
b. Chlorine, Total Residual		х	<0.05	ND					1	mg/l	lbs				
c. Color	х		20	N/A					1	Pt-Co	N/A	;			
d, Fecal Coliform	х		<0.01	ND					1	Coloni 100 m					
e. Fluoride (16984-48-8)	х		0.2	0.03			-		1	mg/l	lbs	. :			
f. Nitrate— Nitrite (as N)	х		<1:0	ND			·		1	mg/l	lbs				

ITEM V-B COM	<del></del>		<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>									T		
I. POLLUT- ANT AND		K X				FFLUENT			·····	4. U	VITS	L	AKE (optional	<u> </u>
CAS NO. (if available)	LIEVE	D. BE	B. MAXIMUM E	PAILY VALUE	b. MAXIMUM 30	able)	C.LONG TERM	lable)	d, NO. OF	a, CONCEN- TRATION	b, MASS	AVERAG	EVALUE	D. NO. O
	SENT	SENT	CONCENTRATION	(2) MASS	CONCENTRATION	(Z) MASS	CONCENTRATION	(2) MASS	YSES	TRATION	U, III A 3 3	CONCENTHATION	(2) MARS	YSES
g. Nitrogen, Total Organic (as N)	x	,	<1.0	ND			·.		1	mg/l	lbs	İ		
h. Olf and Grease	х		7.0	14.92	7.0	14.92	1.93	0.29	16	mg/l	lbs			
l, Phosphorus (as I'), Total (7723-14-0)	х		0.6	0.876					1	mg/l	lbs			
J. Radioactivity		• • •						····	1					
(1) Aipha, Total		х	N/A	N/A			,		0	N/A	N/A			
(2) Beta, Total		х	N/A	N/A					0	N/A	N/A			
(3) Radium, Total		х	N/A	N/A					0	N/A	N/A			
(4) Radium 226, Total		х	N/A	N/A			·		0	N/A	N/A		•	
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)	х		7.3	10.66					1	mg/l	lbs			1.
i. Sulfide (as 8)	х		<0.1	ND					1	mg/l	lbs			
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)	х		<1.0	ND					. 1	mg/l	lbs			
n. Surfactants	х		0.28	0.409				.,	1	mg/l	lbs			ļ <u>.</u>
o. Aluminum, Total (7429-90-5)	х		<0.02	ND					1	mg/l	lbs			
p. Barlum, Total (7440-39-3)	х		<0.02	ND					1	mg/l	lbs			
q. Boron, Total (7440-42-8)	х		<0.01	ND	,				1	mg/l	lbs	,		
r, Cobalt, Total (7440-48-4)	х		<0.03	ND					1	mg/l	lbs			
i. Iron, Total (7439-89-6)	х		1.0	1.46					1	mg/l	lbs			
t. Magnesium, Fotal 7439-95-4)	х		5.2	7.592					1	mg/l	lbs			
. Molybdenum, Total , 7439-98-7)	х		<0.02	ND					1	mg/l	lbs			
/. Manganese, Fotal 7439-96-5)	х	•	1.0	1.46					1	mg/l	lbs			
v. Tin, Total (/440-31-5)	х	.	<0.07	ND	·				. 1	mg/l	lbs			
k. Titenium, Total (7440-32-6)	х		<0.002	ND .				-	1	mg/l	lbs			

EPA Form 3510-2C (8-90)

PAGE V-2

CONTINUE ON PAGE V - 3

Koppers003765

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

CONTINUED FROM PAGE 3 OF FORM 2-C

ORDO27734359

001

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for, Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a fsecondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS		MARK			······································		EFFLUENT				· 4. UI		5. IN	TAKE (opti	onal)
NUMBER	ATEST	D. BE- LIEVED PRE- SENT	C BE-	a. MAXIMUM E	DAILY VALUE		O DAY VALUE	CLONG TERM	AVRG. VALUE	d NO.OF	a. CONCEN-	b. MASS	a. LONG AVERAG	G TERM E VALUE	D. NO. OF
(if available)	QUIR-	SENT	SENT	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	YSES	TRATION	D. M A 33	(I) CONCEN-	(2) MASS	YSES
METALS, CYANID	E, AN	D TOTA	L PHE	ENOLS						,					
1M, Antimony, Total (7440-36-0)	x	1		<0.1	ND					1	mg/l	lbs			
2M. Arsenic, Total (7440-38-2)	х			<0.1	ND					1	mg/l	lbs			
3M. Beryllium, Total, 7440-41-7)	Х			<0.01	ND					1	mg/l	lbs			
4M. Cadmium, Total (7440-43-9)	х			<0.01	ND					1	mg/l	lbs_			
5M. Chromium, Total (7440-47-3)	Х			<0.02	ND			·		1	mg/l	lbs			
6M. Copper, Total (7440-50-8)	х			<0.01	ND.					_ 1	mg/l	lbs			
7M. Lead, Total (7439-92-1)	х			<0.06	ND					i	mg/l	lbs			
8M. Mercury, Total (7439-97-6)	¥-			<0.0003	ND	Pro			e 2 <b>%</b>	1	mg/l	lbs	e i priigi		
9M. Nickel, Total (7440-02-0)	Х			<0.03	ND				. i'	1	mg/l	lbs			
10M, Selenium, Total (7782-49-2)	Х			<0.14	ND					1	mg/l	lbs			
11M. Silver, Total (7440-22-4)	х			<0.1	ND					1	mg/l	lbs			
12M. Thailium, Total (7440-28-0)	· x			<0.3	ND					1	mg/l	lbs		<del>-</del>	
13M, Zinc, Total (7440-66-6)	х			<0.02	ND					1	mg/l	lbs			
14M. Cyanide, Total (57-12-5)	Х			<0.01	ND					_1_	mg/l	lbs			
15M. Phenois, Total	Х			0.86	1.256	0.86	1.256	0.149	0.037	16	mg/l	lbs			
DIOXIN															
2,3,7,8-Tetre- chlorodibenzo-P- Dioxin (1764-01-6)			х	DESCRIBE RES	ULTS							!			

CONTINUED FROM	<del>,</del>	MARK		<del></del>	<del></del>		EFFLUENT	<del> </del>			4. UN	LITE	5 (N)	TAKE (optic	
ANDCAR				a. MAXIMUM I	DAILY VALUE			C.LONG TERM	AVRG. VALUE	d NO. OF	· · · · · · · · · · · · · · · · · · ·		A. LONG		b. NO.OF
(if available)	BE.	D BE- LIEVEC PRE- SENY	PENT	CONCENTRATION	(2) MASS	- (I)	(2) MASS	(1) CONCENTRATION	(2) MASS	ANAL-	B, CONCEN- TRATION	b, MASS	(I) CONCEN-	(2) MASS	ANAL- YSES
GC/MS FRACTION						- CONSTRUCTION		CONCENTACION	· .•						
1V. Acrolein (107-02-8)	Х			<50	ND					1	ug/l	lbs			
2V. Acrylonitrile (107-13-1)	х			<50	ND				. • .	1	ug/l	1bs			٠.
3V. Benzene (71-43-2)	Х			29	0.042					1	ug/l	lbs			
4V. Bis (Chloro- methyl) Ether (542-88-1)	х			<5	ND					1	ug/l	lbs		-	
6V. Bromoform (75-25-2)	х			<u> </u>	ND.	·				1	ug/l	lbs			
6V. Carbon Tetrachloride (56-23-5)	х			<5	ND I					1	ug/l	lbs	·		
7V. Chlorobenzene (108-90-7)	х			<5	ND					1	ug/l	lbs			
8V. Chlorodl- bromomethans (124-48-1)	x			<5	ND					1	ug/l	lbs			
9V. Chioroethane (75-00-3)	х			<25	ND					1	ug/l	lbs			
10V. 2-Chloro- ethylvinyl Ether (110-75-8)	х			<25	ND					1	ug/l	lbs			
11V, Chloroform (67-66-3)	х			<5	ND					. 1	ug/l	lbs			
12V. Dichloro- bromomethene (75-27-4)	x			<5	ND					_1	ug/l	<u>lbs</u>			
13V. Dichloro- difluoromethans (75-71-8)	х			<50	ND					1	ug/l	lbs			
14V. 1,1-Dichloro- ethane (75-34-3)	x			<5	ND.	-			·	1.	ug/l	<u>lbs</u>			
15V, 1,2-Dichloro- ethane (107-06-2)	х			<5	ND					1	ug/l	lbs			
16V, 1,1-Dichloro- ethylene (75-35-4)	х			<5	ND					1	ug/l	lbs	;		
17V, 1,2-Dichloro- propane (78-87-5)	х			<50	ND					1	ug/l	lbs			
18V. 1,3-Dichloro- propylene (542-75-6)	х			<5	ND					1	ug/l	lbs		<del> </del>	
19V, Ethylbenzene (100-41-4)	х			<5	ND		r	12		1	ug/l	lbs			
20V, Methyl Bromide (74-83-9)	х			<10	ND					1	ug/l	lbs			
21V. Methyl Chloride (74-87-3)	х			<10	ND					1	ug/l	lbs		NTINUE ON	

EPA I.D. NUMBER (copy from Item 1 of Form 1) OU (FALL NUMBER CONTINUED FROM PAGE V-4 ORDO27734359 001 1. POLLUTANT 5. INTAKE (optional) 2 MARK 'X' 3. EFFLUENT 4. UNITS AND CAS ATEST D. BE- C BE-INC LIEVEDLIEVED RE- PHE- AR-QUIN- SENT SENT ED A LONG TERM b. MAXIMUM 30 DAY VALUE C.LONG TERM AVRG. VALUE b NO.OF d NO.OF NUMBER 8. MAXIMUM DAILY VALUE a CONCEN ANAL YSES b. MASS ANAL. (if available) CONCENTRATION CONCENTRATION TRATION (I) CONCEN-(2) MASS (2) MASS (2) MASS (2) MASS GC/MS FRACTION - VOLATILE COMPOUNDS (continued) 22V. Methylene Chioride (75-09-2) X <5 ND 1 ug/l 1bs 23V. 1,1,2,2-Tetra-Х <5 ND 1 ug/l lbs (79-34-5) 24V. Tetrachioro-ethylene (127-18-4) X <5 ND 7 uq/l 1bs 25V. Toluene (108-88-3) X 27 ug/l 0.039 1 1bs 26V. 1,2-Trans-Dichloroethylene (156-60-5) < 5 ND ug/11bs 27V. 1,1,1-Trichloroethane Х <5 ND 1 ug/l lbs (71-65-6) 28V. 1,1,2-Trichlorosthana (79-00-5) <5 ND uq/l 1bs 29V. Trichloroethylene (79-01-6) Х <5 ND 1 ug/l lbs 30V. Trichlorofluoromethane (75-69-4) < 5 ND ug/11bs 31V. Viny! Chloride (75-01-4) X <25 ND 1 uq/l lbs GC/MS FRACTION - ACID COMPOUNDS 1A. 2-Chloropheno (95-57-8) х <5 ND 1 uq/1 lbs 2A. 2.4-Dichlorophenol (120-83-2) <5 ND ua/1 lbs 3A. 2,4-Dimethyl-phenol (105-67-9) Х <5 ND 1 uq/l lbs 4A. 4.6-Dinitro-O-Cresol (534-52-1) < 5 ND ug/1 lbs 5A. 2,4-Dinitrophenol (51-28-5) <50 ND lbs uq/1 6A. 2-Nitrophenol х <5 ND 1 (88-75-5) ug/l lbs 7A. 4-Nitrophenol (100-02-7) Х < 50 ND 1 ug/l lbs BA, P-Chloro-Mх <2 ND 1 ug/l lbs Cresol (59-50-7) 9A. Pentachlorophenol (87-86-5) X <25 ND 1 ug/l lbs 10A, Phenol (108-95-2) <5 ND ug/1lbs 11A. 2,4,6-Tri-chtorophenoi (88-06-2) Х <5 ND

1

ug/l

lbs

1. POLLUTANT		MARK				3, (	EFFLUENT					NITS		TAKE (optic	mal)
AND CAS NUMBER	A.TEST	P. BE.	C B K	8. MAXIMUM E	DAILY VALUE	b. MAXIMUM 3	O DAY VALUE	CLONG TERM	AVRG. VALUE	d NO.OF	a. CONCEN-	b, MASS	A, LONG	G TERM E VALUE	b. NO. 01
(if available)	QUIA-	BENT	96 MT	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(1) MASS	ANAL. YSES	TRATION	D, MA35	(I) CONCEN-	[2] MASS	YSES
GC/MS FRACTION	I – BA	SE/NE	JTRAI	COMPOUNDS											
18. Acenaphthena (83-32-9)	,	,			*										1
	X			<5	ND					1	_ug/1	lbs	· ·		ļ
2B. Acenaphtylene (208-96-8)	х			<5	ND		·.			11	ug/l	lbs_			
3B. Anthracene (120-12-7)	x			<b>&lt;</b> 5	ND		•			3	ug/l	lbs			
48. Benzidine (92-87-5)	х			<10	ND			,		1	ug/l	lbs			
5B. Benzo (a) Anthracene (56-55-3)	х			20	0.029					1	ug/l	lbs		7	
6B. Benzo (a) Pyrene (50-32-8)	х			9	0.013					1					
7B. 3,4-Benzo- fluoranthene	х			10	0.013					1	ug/l ug/l	lbs		<del></del>	
(205-99-2)  BB. Benzo (ghi)  Perviene											ug/1	IDS		<del></del>	
Parylene (191-24-2) 98. Benzo (k)	X			<5	ND					_1_	ug/l	.lbs			<u> </u>
Fluoranthene (207-08-9) 10B, Bis (2-Chloro-	x			10	0.014					_1_	ug/l	lbs			
ethoxy) Methana (111-91-1) 11B. Bis (2-Chloro-	x			<5	ND					1	ug/l	lbs			
e(hyl) Ether (111-44-4)	x			<5	ND					1	ug/l	lbs	i		
12B. Bis (2 · Chloroiso - propyl) Ether (102 · 60 · 1)	х			<5	ND					1	ug/l	lbs			
13B. Bis (2-Ethyl- hexyl) Phtheiste (117-81-7)	x			<5	ND				~	1	ug/l	lbs			
148, 4-Bromo- phenyl Phenyl Ether (101-55-3)	x			<5	ND					1	ug/l	lbs			
158. Butyl Benzyl Phthalate (85-68-7)	х			<5	ND					1	ug/l	lbs			
168. 2-Chloro- naphthalene (91-58-7)	x			<5	ND					1	ug/l	lbs			
178. 4-Chloro- phenyl Phenyl Ether (7005-72-3)	x x			<5	ND					1	ug/l	lbs			
188. Chrysene (218-01-9)					· ·							lh a			
198. Dibenzo (a,h) Anthracene	x	-		<5	ND					1	ug/l ug/l	lbs lbs			
(53-70-3) 20B. 1,2-Dichloro- benzene (95-50-1)	X			<5	ND					-	49/ 1				
Dausaua (90-00-1)	x			<5	ND				<u> </u>	1	ug/l	lbs			<u> </u>
21B. 1,3-Dichloro- benzene (541-73-1)	х		ļ	<5.	ND				}	1	ug/l	lbs			

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					EPA I.D.	NUMBER (COPY)	from Item 1 of F	orm I) OUTFAL	LNUMBER	ļ. ·					
CONTINUED FRO		3E V-6			) 0	RDO2773435	59	00	1	1					
1. POLLUTANT AND CAS	<u> </u>	MARK					EFFLUENT				4. UI	NITS		TAKE (optic	onal)
NUMBER	ING BYEST	p se	SENT TIEVED	8, MAXIMUM I	DAILY VALUE		ODAY VALUE	c.LONG TERM	AVRG. VALUE	d NO.OF	Ia. CONCEN.	b, MASS	A. LON	TERM E VALUE	b. NO.
(if available)	อบิโล-	SENT	SENY	[I] CONCENTRATION	[2] MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASE	YSES	TRATION		(I) CONCEN-	(2) MASS	YSE
GC/MS FRACTION	– BA	SE/NE	UTRAI	L COMPOUNDS	(continued)		<u> </u>	<u> </u>			ļ		ļ <u> </u>		<del> </del>
228. 1,4-Dichioro- benzene (106-46-7)	х			<5	ND					1	ug/l	lbs		_	
23B. 3,3'-Dichloro- benzidine (91-94-1)	x			<10	ND					7	ua /1	lha			
248. Diethyl Phthalate (84-66-2)	x			· <5	ND .					1	ug/l ug/l	lbs lbs			
25B. Dimethyl Phthalate							·				-9/-				<del>                                     </del>
(131-11-3)	Х			<5	ND					1	ug/l	lbs			
26B. DI-N-Butyl Phthalate (84-74-2)	х			<5	ND					1	ug/l	lbs			
27B. 2,4-Dinitro-															1
toluene (121-14-2)	x			<10	ND		· · · · · · · · · · · · · · · · · · ·			1	ug/l	lbs			ļ
28B. 2,6-Dinitro- taluene (606-20-2)	Х			<10	ND					1	ug/l	1bs			
29B. Di-N-Octyl Phthalate (117-84-0)	х	ļ		<5	ND					1	ug/l	lbs			
30B. 1,2-Diphenyl- hydrazine (as Azo-	х			<5	ND					1	ug/l	lbs			
benzene) (122-66-7) 31B. Fluoranthene (206-44-0)	x			10	0.014			·		1	ug/l	lbs			
328, Fluorene (86-73-7)	x			<5	ND		· · · · · · · · · · · · · · · · · · ·			1	ug/l	lbs			-
338. Haxachlorobenzene (118-74-1)	x			<5	ND I						ug/l	lbs			ļ
															<u> </u>
34B, Hexa- chlorobutadiene (87-68-3)	_ x			<5	ND					1	ug/l	lbs			
35B, Hexachioro- cyclopentadiene (77-47-4)	х			<25	ND					1	ug/l	lbs !	-		
368, Hexachloro- ethane (67-72-1)	х			<5	ND		<del></del>			1	ug/l	lbs			
378. Indeno (1,2,3-cd) Pyrene (193-39-5)	х			<5	ND					1	ug/l	lbs			
388, (sophorone (78-59-1)	x			<5	ND					1	ug/l	lbs			-
398. Naphthalene (91-20-3)	х		$\neg \uparrow$	<b>~5</b>	ND						ug/1	lbs			L
40B. Nitrobenzene			$\dashv$		ND										
(98-95-3) 418. N-Nitro- sodimethylamine	x			<5 <5	ND ND					$\begin{array}{c c} 1 \\ \hline 1 \end{array}$	ug/l	lbs lbs			
(62-76-9) 428, N-Nitrosodi-											49/1	102			
N-Propylamine (621-64-7)	X			<5	ND		. ,			1	ug/l	lbs		TINUE ON E	

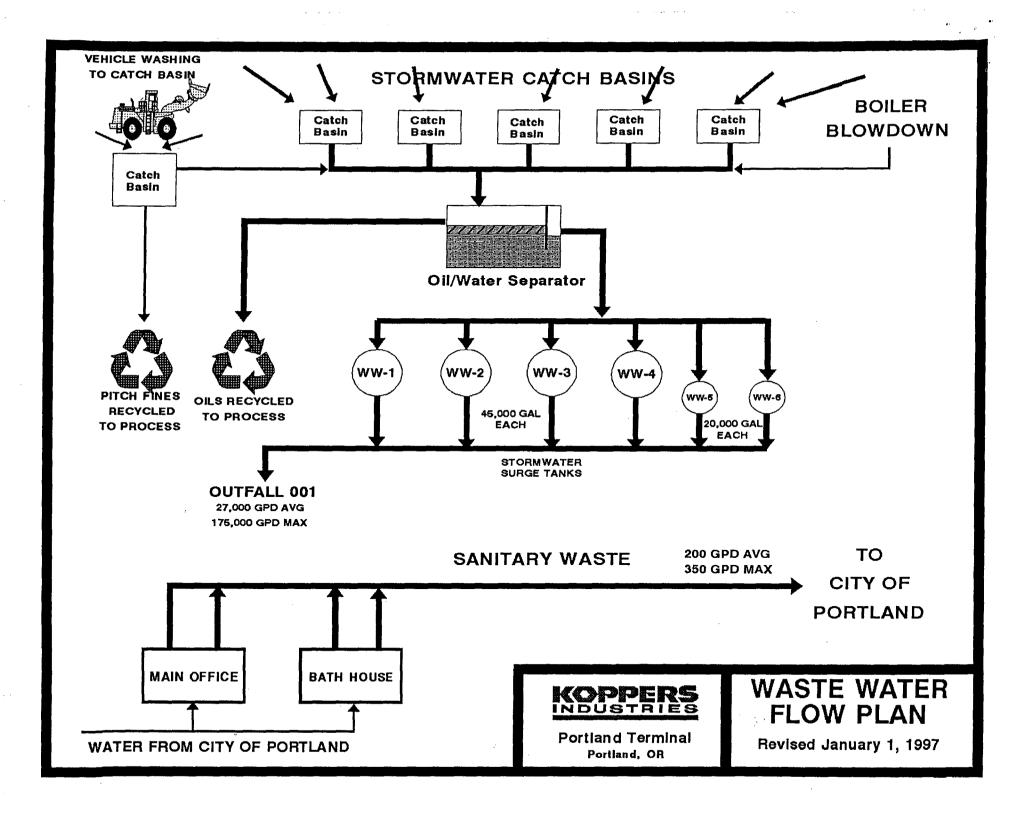
CONTINUED FROM	M THE	FRON	T										<u> </u>		
I. POLLUTANT	2.	MARK	,x,				EFFLUENT				, 4, UI	IITS	5. IN	AKE (opti	onal)
AND CAS NUMBER	A TEST	Pat-	C DE-	B. MAXIMUM (	DAILY VALUE		O DAY VALUE	CLONG TERM	AVRG. VALUE	d NO.OF	a, CONCEN- TRATION	b MASS	B. LONG	TERM EVALUE	b. NO.OF
(if available)						(I)	(2) MASB	CONCENTRATION	(Z) MASS	YSES	TRATION	U, MASS	(I) CONCEN-	(2) MASS	YSES
GC/MS FRACTION	- BA	SE/NE	UTRA	L COMPOUNDS	(continued)										
43B. N-Nitro- sodiphenylamine (86-30-6)	х			<5	ND					1	ug/l	lbs	1		
448. Phenanthrene (85-01-8)	Х			<5	ND					1	ug/l	lbs			
45B. Pyrene (129-00-0)	х			11	0.0014		_			1	ug/l	lbs			
46B. 1,2,4 - Tri- chiorobenzene (120-82-1)	х			<25	ND					1	ug/l	lbs	·		
GC/MS FRACTION	- PES	TICID	ES										·		
1P. Aldrin (309-00-2)	х			<4	ND					1	ug/l	lbs			
2Р. <b>а</b> -внс (319-84-6)	х			<2	ND					1	ug/l	lbs			
3P. β-8HC (319-85-7)	x			<4	ND .	•		.,		1	ug/l	lbs			
4P. γ-BHC (58-89-9)	х			<4	ND					1	ug/l	lbs			
5P. δ-BHC (319-86-8)	х			<4	ND					1	ug/l	lbs			
6P. Chlordane (67-7 <u>4</u> -9)	х			<4	ND					1	ug/l	lbs			
7P. 4,4'-DDT (50-29-3)	х	•		<8	ND		***************************************			1	ug/l	lbs			
8P. 4,4'-DDE (72-55-9)	х			<4	ND					1	ug/l	lbs			
9P. 4,4'-DDD (72-54-8)	х			<4	ND					1	ug/l	lbs			
10P. Dieldrin (60-57-1)	х			<4	ND					1	ug/l	lbs			
11P. Q-Endosulfan (115-29-7)	Х			<4	ND					1	ug/l	lbs			
12P. β-Endosulfan (115-29-7)	х			<8	ND	·				1	ug/l	lbs			
13P. Endosulfan Sulfate (1031-07-8)	х			<8	ND					1	ug/l	lbs			
14P. Endrin (72-20-8)	x			<4	ND					1	ug/l	lbs			
15P. Endrin Aldehyde (7421-93-4)	х			<10	ND		,			1	ug/l	lbs			
16P. Heptachlor (76-44-8)	х			<4	ND	·				1	ug/1	lbs		TINUE ON P	

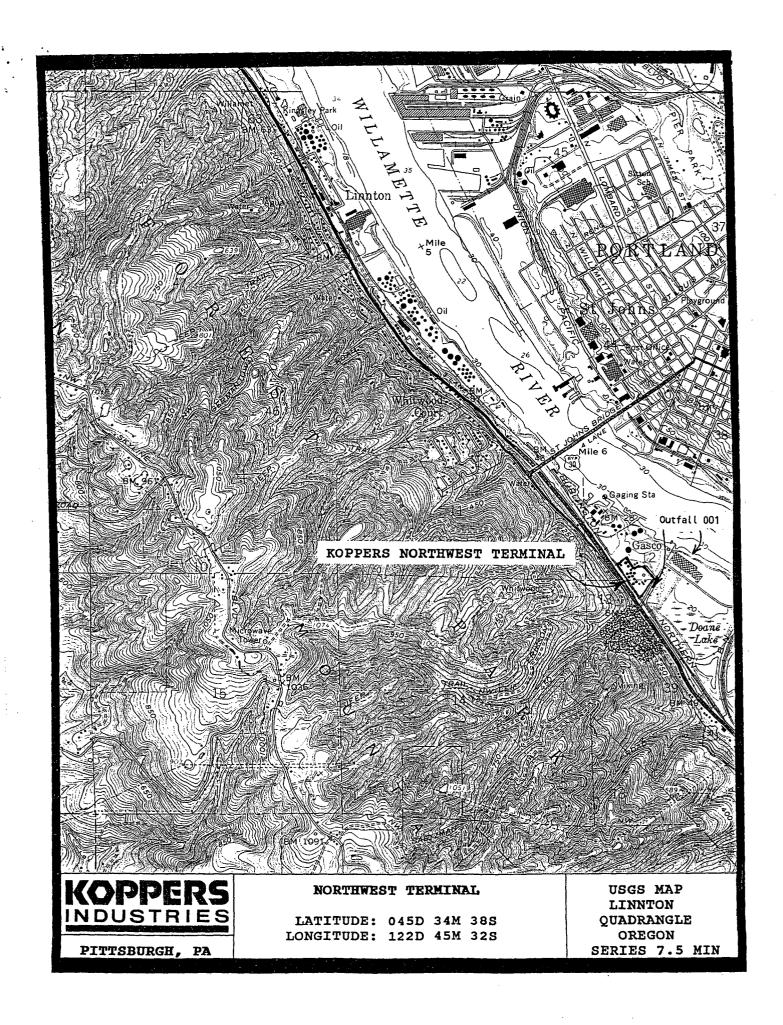
		EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
	CONTINUED FROM PAGE V-R	ORD027734359	001
1	<del></del>		
1	1. POLLUTÁNT 2. MARK 'X'	3 EFFLUENT	

1. POLLUTÁNT	ANDCAS		.x.			3	EFFLUENT		<del></del>	<u> </u>	4. UI	VITS	5. IN	AKE (optic	onal)
AND CAS NUMBER	<b>}</b>	P PE-		a. MAXIMUM E	AILY VALUE	b. MAXIMUM 3		c.LONG TERM	AVRG. VALUE	d NO.OF	a. CONCEN-		A. LONG	TERM E VALUE	b. NO. O
(if available)				CONCENTRATION	(2) MASS	CONCENTHATION	(2) MASS	CONCENTRATION	(1) MASS	YSES	TRATION		(I) CONCEN-	[1] MASS	YSES
GC/MS FRACTION	I — PE	STICID	ES (co	ntinued)						l		i			
17P. Heptachlor Epoxide (1024-57-3)	x			<4	ND					]	ug/1	_lbs			
18P. PCB-1242 (53469-21-9)	Х			<5	ND			·		1	ug/1	lbs			
19P. PCB-1254 (11097-69-1)	Х			<5	ND.					1	ug/l	lbs			
20P. PCB-1221 (11104-28-2)	X.			< <sup>5</sup>	ND						ug/l	lbs			
21P. PCB-1232 (11141-16-5)	x			<5	ND .						ug/1	1bs			
22P. PCB-1248 (12672-29-6)	X			<5	ND						1g/1	1bs			
23P. PC8-1260 (11096-82-5)	х			۷5	ND					1	1g/1	lbs			
24P. PCB-1016 (12674-11-2)	X			< 5	ND						ig/1	lbs			
25P. Toxephene (8001-35-2)	х	·		< 5	ND						ıg/1	lbs			

PAGE: V.O

<sup>\*</sup> U.S. G.P.O.:1992-312-020:63176





May be used to comply 29CFR 1910, 1200, Star SECTION 1 -	with DSHA's Hotord Co	Material Safety Data Sheet			QUICK IDENTIFIER Common Name: (Used on label and list)				
SECTION 1 -	bottpures ad teum braba								
Manufacture/a Namo	Chemical Co	rporation of	America						
Address	2525 S.E. 91	th Avenue			nergency licphone No.	(503) 232-	3334		
City, State, 21P	Portland OF	R 97202		In	hor formation tila	(503) 232-	3334		
Signature of Person Responsible for Preparat	lion (Optional)			De Pro	epered	9/25/91.	Revised 05/23/9		
SECTION 2 - H	azardous in	gredients/1	DENTITY						
fazardous Component(	r) (chemical & common	name(s)	% (optional)	OSHA PEL	ACGIH TLY	Other Exposure Limits	CAS NO.		
Petroleum F	lydrocarbon			500 ppm	200 ppm	TLV/STEL 200 ppm	64742-88-7		
ECTION 3 • PI	tysical & ch	EMICAL CHA	RACTERISTIC	es es					
oiling 3500 _	HYSICAL & CH	EMICAL CHA	Specific	:	.76	V spor Pressure (num Hg)	2.2		
SECTION 3 • Photology 350° –	367° F.		Specific		.76		2.2		
oiling 350° –	367° F.  Yapor Densit	6.1	Specific	(H <sub>2</sub> O = 1) 0			2.2		
olibility Emulai	367° F.  Yapor Densit	y(Air+1) 5.3	Specific Gravity Reactiv Water Melting	(H <sub>2</sub> O = 1) O	16		2.2		
other 350° -  one of the state	367° F.  Yapor Densit	y(Airel) 5.3	Specific Gravity Reactiv Water Melting	(H <sub>2</sub> O = 1) O	16		2.2		
obbility Emulei  obbility Emulei  oboto  oboto  oboto  oboto  character  char	367° F.  Vapor Densit fiable , Yellow Lic	y(Airel) 5.3	Specific Gravity Reactiv Water Metring	(H <sub>2</sub> O = 1) O Sty in Nor Unkno	ne Trwc	Pressure (num Hg)			
oiling 350° -  oint 350° -  oint 150° -  oint 160° -  oin	367° F.  Yapor Densit fiable , Yellow Lic RE & EXPLOS	quid, Citrus ION DATA	Specific Gravity  Reactiv Water Melying Odor Point  Flammable Limits	(H <sub>2</sub> O = 1) O Ity in Nor Unkno	חום השכ	Pressure (num Hg)  UEL Upper 7.0			
oiling 350° —  Subbilly Emule1  Water Emule1  ECTION 4 - FI  ash 147° F.  uto-Igniture University exist Fire	367° F.  Vapor Densit fiable  , Yellow Lic RE & EXPLOS  C. Method Used Known	y(Airel) 5.3  [uid, Citrus  [ON DATA  C.D.C.  Extingulsher Modis	Specific Gravity  Reactive Water Meking Odor Point  Flammable Limits in Air 4 by Volum  Water apray	(H <sub>2</sub> O = 1) O	ne DWN 0 foam, dr	Pressure (num Hg)  UEL Upper 7.0 y chemical			
offing 350° —  onbility Emulai  Water Water Clear  ECTION 4-FI  ash 147° F.  uto-Ignition emperature Ectal Fire ghing Procedures  Float. Fire  Float. Fire	367° F.  Vapor Densit fiable  , Yellow Lice  RE & EXPLOSE  C. Method the density of the density	y(Airel) 5.3  Quid, Citrus  ION DATA  C.O.C.  Extingulaher Modis  direct wat	Reactive Water Melying Odor Point Flammable Limits in At & by Yolum Water Spray	(H <sub>2</sub> O = 1) O Unknown Let tower Lower Lower Lower Lawer Lower Lawer Lower La	own  .0  foam, dr	Pressure (num Hz)  UEL Upper 7.0 y chemical ation of w	or CO <sub>2</sub>		
coloiling 350° — coloiling 350° — coloiling Emulai. coloiling Emulai. coloiling Emulai. coloiling Security Emulai. coloiling 147° F. coloiling Security Emulai. coloiling Emulai. coloiling Procedures	367° F.  Vapor Densit fiable  , Yellow Lice RE & EXPLOSE C.  Method Used known  Do not use a fighters sho	y(Air*1) 5.3  [uid, Citrus [ON DATA  C.D.C. Extingulsher Modis direct wat	Reactive Reactive Water Melying Point Point Make Spy Volum Water Spray er stream.	(H <sub>2</sub> O = 1) O Ity in Nor Unknown LEL tower 1 or fog. Avoid any	ne .0 foam, dr accumul	UEL 7.0  y chemical ation of water and proper to see the proper to	or CO <sub>2</sub>		

1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)	CHEMCOA 1035-A
Stability Unstable CX Conditions Stable CX mavoid High heat and open flames	
Incompatibility (Materials to A-vid) Oxidizing materials.	
Hearthous Carbon monoxide, carbon dioxide and unidentify	ied organics.
Hazardous May Occur C Conditions Polysticrization Will Not Occur C to Avoid None known.	
SECTION 6 - HEALTH HAZARDS	
L. Acute (Immediate)  Eye & pulmonary irritation.  Z. Chronic (Orlayed Effect)  None report	rted
Signs and Symptoms of Exposure Coughing, dizziness and drying of skin. Mists	irritate eyes, mucous
membranes and upper respiratory tract.	
Medical Conditions Generally Aggravated by Exposure None known.	
Chemical Listed as Carolnogen National Toxicology Yes D I.A.R.C. Yes D or Potential Carolnogen Program No Monographs No D	OSHA Yes () No 反
Emergency and First Ald Procedures If over-exposure occurs, follow procedures outling	ned below:
l. Inhalation Remove victim to fresh air. Administer oxygen.	Consult physician.
ROUTES \ 2.60 Plush w/water for 15 minutes. If irritation persi	sts, consult physician.
ENTRY 1. Wash affected area with soap and water. Launder of	
4. Ingestion Do not induce vomiting. Aspiration hazard, Immedi	ately consult physician.
SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES	
Piccaulions to be Taken In Handling and Storego Store in a cool, dry place with adequate vent	ilation. Keep container
closed when not in use.	
Diver Empty containers of this material contain residue. Ob	serve all hazard practices
For empty containers. Do not weld on or cut empty container	6.
sides to be Taken in Case  Append is Released or Spilled Eliminate sources of ignition. Contain spill	with a non-combustible
absorbant, and place in drums for disposal. Do not discharg	e into sewer system.
Visic Disposal Ajhndo (Consult federal, state, and local regulations) Dispose of wastes in compliance w	ith federal, state
, and local regulations.	
ECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES	
espinion Protestion None normally required. If mists generated, use	NIOSH approved respirator
collection boxal Mechanical Special	one One none
	e wash fountain
the Protective Long sleeves and trousers.	
Voi Myglank Practices Wash thoroughly after handling.	W ,
MPORTANT to not leave any blank spaces, if required information is unavailable, unknown, or does not apply	y, so ladicate.
U-FIR Printed by Labelmaster, An American Labelmark Company, Chicago, IL 50648 (800) 621-5808	

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1.

Name of Facility

#### OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY SUPPLEMENTAL INFORMATION FORM

## AIR, WATER, SOLID WASTE AND HAZARDOUS WASTE PERMITS AND REGISTRATIONS MODIFICATIONS TO EXISTING FACILITIES

Unnecessary delays during permit review or facility construction often can be eliminated when potential issues and areas of overlap are identified early in the permit process. With this in mind, the Oregon Department of Environmental Quality (DEQ) is testing an integrated approach to permit processing. The purpose of this "cross-media" approach is to help the applicant determine which pre-construction environmental permits will be needed, and help DEQ expedite the permit process. The approach also helps the applicant and DEQ analyze potential impacts of the proposed modification on all environmental areas of concern; helps prevent any inadvertent transfer of pollutants from one media to another, such as from air to land; provides an opportunity to look at overall environmental impacts from a facility and net environmental benefits from a proposal; and increases opportunities to identify pollution prevention alternatives.

The following questions are meant to be a screening tool to help identify potential areas of concern and, if necessary, help DEQ establish a cross-media workgroup for your facility. If you are unsure which regulations apply to your facility, several DEQ publications and technical assistance programs can help you find answers. For a copy of the Oregon Environmental Permits Handbook, or if you have other questions, please telephone the person identified in the cover letter included with this form. You also can telephone DEQ's Technical Assistance and Service Coordinator at (503) 229-5946, or toll-free (800) 452-4011, to be referred to the appropriate program or to arrange a pre-application meeting with permit program staff.

Koppers Industries, Inc.

	Address or Location of Facility 7540 NW St. Helens Road  Portland, OR 97210-3663
	Latitude/Longitude or other precise locational data for the facility, if available (if you need assistance in determining latitude and longitude coordinates, please contact DEQ at 229-5946)  Latitude 45:34:38 Longitude 122:45:32
	Name of Contact Person Amos S. Kamerer  Phone Number of Contact Person 503-285-3681
2.	Please briefly tell us what kind of business you operate (principal products and services).  Terminal operations for creosote and coal tar pitches.
3.	Please list any local, state or federal environmental permits or registrations you may have from the list below. Please check all that apply. Please enter the permit or registration number if available (or just indicate YES if the number is not readily available); or indicate N/A if the permit does not apply to your facility. Please indicate which of these permits
	you intend to apply for or modify at this time.
	a. Air Permit (air emissions) X yes N/A
	Permit Number, if known modify?yesno

	b. Indirect Source Construction Permit (large parking lots)	y <u>X_</u> N/A
	Permit Number, if known	modify?yesno
	c. Wastewater Discharge Permit (state or federal)	yes <u>X</u> N/A
	Permit Number, if known	
	d. Wastewater Pretreatment Permit (local)	yes X_N/A
	Permit Number, if known	
	e. Hazardous Waste Generator Registration	_yes <u>x_</u> N/A
	EPA ID Number, if known	yesno
	f. Hazardous Waste Permit (RCRA Part B)	yes _xN/A
	g. Solid Waste Disposal Permit	yes <u>X</u> N/A
	Permit Number, if known	_ modify?yesno
	h. Underground Storage Tank Registration	yes XN/A
	Permit Numbers, if known	modify?yesno
	i. Environmental Cleanup/Superfund Site	yes X_N/A
	j. Voluntary Cleanup Registration	yes <u>x</u> N/A
	air, water and land; proposed control technologies; and any be needed. If you treat your wastes prior to discharge or re plan to manage or dispose of treatment residuals (ash, filters Please use a separate sheet for your description.	lease, please indicate how you s, sludge, leachate, etc.).
5.	Many companies are able to design their facilities and proce chemicals used and pollutants discharged to the environment helpful in the permit review process and public hearings. He pollution prevention concepts and technologies into the designary area. It was nodon't know Paving at potential spill areas. Recycle spill figes, please briefly describe the design elements and pollutant pollution prevention activities already implements a separate sheet for your description.	nt. This information may be ave you incorporated any ign of your facility?  I material. tant reductions anticipated.
	If you would you like any information (written publications, prevention from our Waste Reduction Assistance Program, toll-free (800) 452-4011.	
6.	Facilities applying for environmental permits may encounter use, noise, traffic, odors or other community issues. Are your community regarding your facility?yesno	ou aware of any concerns in
	If yes, please indicate what the concerns are and how you use a separate sheet for your description.	plan to address them. Please
DEQ st	you for taking the time to fill out this form. If you have any taff person listed in the cover letter, or our Technical Assista 229-5946, or toll-free (800) 452-4011.  (Note: questions 4, 5 and 6 should be answered on a sepa	nce and Services Coordinator at
	10/25/03	-

ORM AQ101	FOR DEQ USE ONLY
DMINISTRATIVE INFORMATION	Permit No.
	Application No.
	Date Received
	Type of Application:
•	EXT NEW RNW MOD SM
	EXT 1337 Idity IIQD Sin
•	
1. Legal Company Name	2. Facility Name (if different from legal company name)
Koppers Industries, Inc.	Koppers Industries, Inc.
Legal Company Name	Facility Name
436 Seventh Avenue	7540 NW St. Helens Road
Mailing Address	Mailing Address
Pittsburgh, PA 15219-1800	Portland, OR 97210-3663
City, State, Zip Code	City, State, Zip Code
412-227-2001	503-285-3681
Area Code and Telephone Number	Area Code and Telephone Number
3. Facility Location	4. Site Contact
SAME	Amos S. Kamerer; Plant Mgr.
Street Address (if different from mailing address)	Name and Title of Contact Person at Site
	503-285-3681
City, Zip Code	Area Code and Telephone Number
Multnomah	
County	'
5. Government Facility Indicator	6. Other DEQ Permits
	NPDES Permit No. 100419
Signature	
	e State of Oregon, as stated or described in this application, and certify that the inform nded hereto, are true and correct to the best of my knowledge and belief.
Amos S. Kamerer	Plant Manager
Name of official (printed or typed)	Title of official
Name of official (printed of typed)	Tide of official
0'	Doctor (11th)
Signature of official	Date (mm/dd/yy)
•	
APPLICATION FEE INFORMATION ON	REVERSE. TWO COPIES OF THE COMPLETEL
INDIVIDUAL PROPERTY OF THE PRO	TTH ALL FEES REQUIRED, TO THE DEPARTMENT

Page AQ101-1

Type of Business (OAR 340-28-1750 Table 4 entries)				
Industrial Organic Chemicals	SIC 2865 or 2869			

			_ (lmos - for DE4)	,
. 1	Fee Information		= (lmos - for 1)E4 purpodes, bailers are listed as 51C	;
SIC Code	Application <u>Processing</u>	Compliance <u>Determination</u>	4961 July	
4961	\$1540.00	\$1332.00	\$2872.00	-
**************************************			<del></del>	
	***************************************		·	
		· <del>*** ******</del>		
	<del></del>			
Standard filing fee		**************************************	\$75.00	
Fee: Permitting Fe	e	(Apt. F)	\$2000.00	
Fee:				
Fee:			·	
Fee:				
TOTAL FEES			\$4947.00	

l. Facility name Koppers Industries, Inc.	2. Permit # N/A
Description of facility	
The plant receives truck, railcar, and barges of	creosote, coal tar pitches, and allie
	n heated tanks and shipped to customer
in the northwest states via truck and rail trans	porters.
Due to changing market conditions, KII is planning	ng to add additional heated storage
tanks to the facility. The tanks will be heated	by a hot oil system. An additional
8.0 million BTU/HR natural gas fired hot oil hea	ter will be needed when the tanks are
installed. Potential tank emissions of VOM will	be collected and ducted to the
proposed new hot oil heater and will be incinera	ted at a 98% or greater destruction
efficiency. A new heated pipeline installation	is also planned within the next
two years.	
<del></del>	
4. Seasonal or year-round operation? <u>Year-round operation</u>	
·	
5. Operating schedule	
24 hours/day	
7 days/week	
6000 hours/year	
6. Attach diagram	
7. Attach line/block drawing	
8. Attach location map	•

1. Fac	ility name Koppers Industries, Inc.	2. Permit # N/A
<u> </u>	-	· ·
Fuel B	urning Device Information	
3.	ID number #1	
4.	Existing or future? Existing	
5.	Date commenced (mm/dd/yy)Circa 1965	·
6.	Date installed/completed (mm/dd/yy)Circa 19	265
7.	Special controlsNone	
		- <del> </del>
8.	Manufacturer North American	
9.	Description of deviceFire tube steam boi	ler for heating
	Firing method Normal dual fuel burner	
10.	Firing method Normal dual Idel Burner	·
Opera	ting Schedule	
11.	Seasonal or year-round? Year-round	<del>_</del>
	a. Months in operation 12	
12.	Projected maximum hours/day 24	
13.	Projected maximum days/week 7	
14.	Projected maximum weeks/year 52	
Produ	ction Information	ë : !
15,	Rated design capacity (input)21,000,000 BTU/h	(specify units)
16.	Projected maximum annual operation 126,000 M	BTU (specify units)
	•	
Ash G	eneration and Disposal Information	
17.	Quantity generated <u>None</u> tons/yr	
18.	Description of ash disposal method N/A	

Fuel Usage Information

19. Fuel usage	- Primary Fuel	Backup A	Backup B	Backup C
a. Type/grade of fuel	Nat. gas	Diesel oil	N/A	N/A
b. Average sulfur content (% by wt.)	0.01 GR/SCF	0.3		
c. Design hourly usage (specify units/hr)	21 MCF/HR	140 GAL/HR		
d. Projected maximum annual usage (units/yr)	184 MMCF/Y	100,000 GPY		

<u>Stack</u>	Informa	<u>ition</u>
20.	Stack	height 40 ft
21.	Flow	rate 4550 dscf/min at maximum firing rate.
Monit	oring In	<u>iformation</u>
22.	Monit	oring equipment
	a.	steam pressure gauge (y/n; if y, recorder?) Yes - no recorder
	b.	steam flow gauge (y/n; if y, recorder?) Yes - recorder
	c.	oxygen analyzer (y/n; if y, recorder?)No
	d.	visible emissions monitoring (y/n)No
_	е.	sulfur dioxide monitor (y/n) No
	f.	other monitor (y/n; if y, specify; if y recorder?) No
Pollu	ion Con	trol Information No
23.	Contr	ol device(s)? (y/n; if y, identification number(s))

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1. Facility name	Koppers Industries, Inc.	2. Permit #
<u> </u>		

#### 3. Emissions Data

a. Emissions Point	Production	Rates	d.		Emission Factors	Emis	Emissions		
	b. Short-term (specify)	c. Annual (specify)	Pollutant	e. Short-term	f. Long-term	g. Reference(s)	h. Short-term (specify)	i. Annual (tons/yr)	
#1	21.0 MBTU/HR	4.4 TBTU	NOx	140 1b/MCF	140 1b/MCF	DEQ	2.8 1b/HR	12.3 TPY	
#1	11 .	11	VOC	2.8 1b/MCF	2.8 1b/MCF	DEQ	0.05 1b/HR	0.3 TPY	
#1	11	11	co .	35 1b/MCF	35 1b/MCF	DEQ	0.7 1b/HR	3.1 TPY	
#1	"	11	PM	2.5 1b/MCF	2.5 1b/MCF	DEQ	0.05 1b/HR	0.2 TPY	
#1	11	71	so <sub>2</sub>	3.8 1ь/мсғ	2.6 lb/MCF	DEQ	0.05 1b/HR	0.2 TPY	
-							,		
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## MAXIMUM POTENTIAL EMISSION PORTLAND TERMINAL

SOURCE	,	INPUT	FUEL	FUEL	NOx	NOx	VOC	VOC	CO	CO	SO2	SO2	PM	PM
		MM BTU/Hr		USED	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr
Atlas Boiler	long term	21	N Gas/Oil	Gas	140	12:334	2.800	0.247	35.000	3.084	3.800	0.335	2.500	0.220
	short term	21		Gas	140						2.600	0.229		
	long term	8.5	N Gas/Oil	Gas	100	3,566	5.300	0.189	20.000	0.713	3.800	0.136	2.500	0.089
New H. O. Heater	long term	8	N Gas/Oil	Gas	100	3,356	5.300	0.178	20.000	0.671	3.800	0.128	2.500	0.084
						0,000		0.000		0.000		0,000		0.000
New Pitch Tanks	no controls					0,000		20.040		0.000		0.000		0.000
	98% control					0.000		0.401		0.000		0.000		0.000
ProcessTotals						6.922		0.768		1.384		0.263		0.173
Plant Total						19.257		1.014		4.468		0.598		0.393

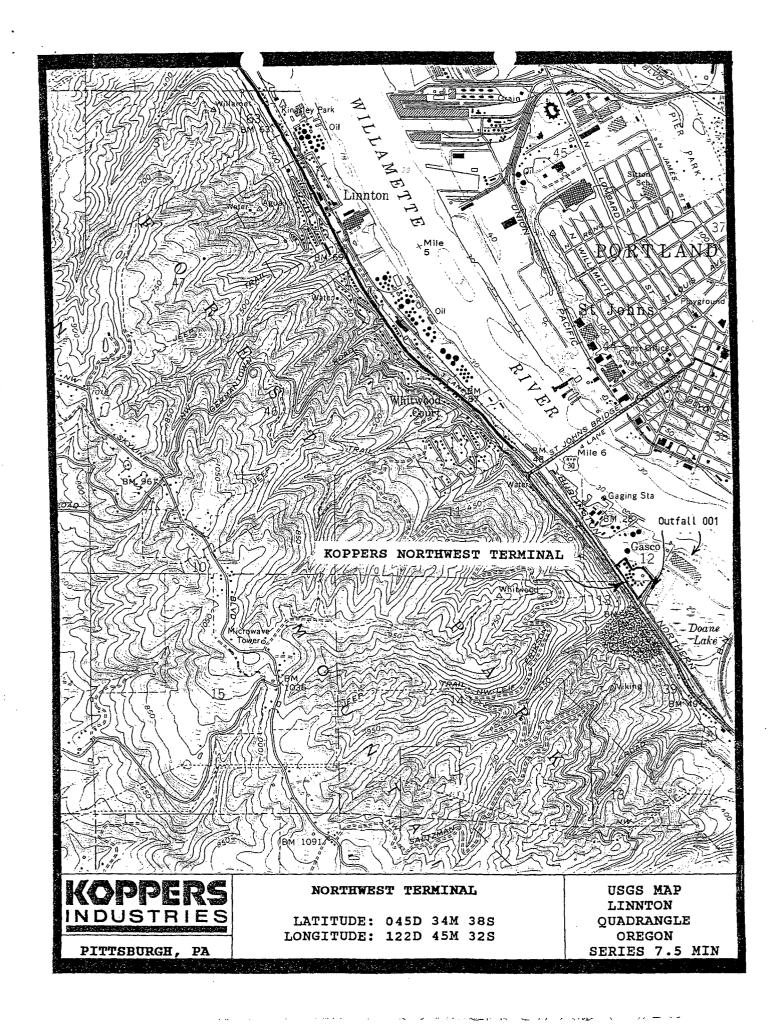
Natural Gas = 1044 BTU/cuft

SO2 long term maximum based on 13,200 grains sulfur per millin cubic feet natural gas, determined by Northwest supply.

SO2 short term maximum based on 9,100 grains sulfur per millin cubic feet natural gas, determined by Northwest supply.

Emission factors are taken from DEQ table - Air Quality Division 2/23/93

Calculation for criteria pollutants = (max input in mm BTU/hr) X ( Criteria emission factor) X (8760 hrs/yr)/(2000 lbs/ton \* 1044 BTU/SCF)



Koppers003787



Koppers Industries, Inc. 436 Seventh Avenue Pittsburgh, PA 15219-1800

Telephone: Fax:

(412) 227-2001 (412) 227-2423

August 1, 1997

DEQ Business Office 811 SW Sixth Avenue Portland, OR 97204 EXPRESS MAIL

Deliver 8/4/97

Attention:

Mr. Elliott Zais

Re:

Renewal Application NPDES Permit No. 101003 File No. 47430 Multnomah County OR 000077-9

Dear Mr. Zais:

Enclosed is check #270572 in the amount of One thousand twenty-five dollars (\$1,025) to cover the \$50.00 filing fee and the \$975.00 processing fee and the following completed forms for the subject facility:

- DEQ application form;
- EPA Form 2C NPDES;
- Facility waste water flow plan;
- USGS map of facility location;
- CHEMCOA 1035-A material safety data sheet.

Terminal operations and stormwater handling and treatment have not changed significantly since the issuance of the current permit. No wastewater is generated from operating processes at this facility; however, a minor amount of wash water is generated from time to time from vehicle cleaning. The resultant solids/water mixture is drained to a catch basin to recover the reusable product. This equipment cleaning operation has been added to the waste water flow plan for this facility. The cleaning procedure is enhanced if a proprietary cleaner (CHEMCOA 1035-A) is sprayed on the vehicle prior to hosing it down with city water. Vehicle washing occurs approximately six to seven times per year; hence KII anticipates that CHEMCOA 1035-A usage would be less than 55 gallons per year. Since the primary purpose of the equipment cleaning is to remove solid particles (which are recovered and recycled) rather than oils, KII believes that oil emulsification will not be a significant problem and requests that the use of CHEMCOA 1035 be provided for in the renewed NPDES permit. Attached is a Material Safety Data Sheet for CHEMCOA 1035.

You may recall that heavy rainfall caused flooding in the plant several times over the past five years and resulted in shut down of the operations due to our inability to remove stormwater fast enough. Improvements to the stormwater handling facilities at the plant are underway and will be completed by year end. These improvements will not change the current methods of treatment but will increase the maximum discharge rate of stormwater from 120 gpm to approximately 700 gpm.

These matters notwithstanding, KII believes that the current outfall limitations provide adequate protection to the environment and achieves a reasonable cost benefits ratio. We encourage the Agency to reissue the NPDES permit with the modifications that were requested while maintaining the existing outfall limitations.

If you have any questions, please call Mr. Amos Kamerer, Plant Manager, at 503-286-3681 or me at 412-227-2883.

Sincerely yours,

William E. Swearingen

Manager, Environmental Programs

Enclosures

CC

A. S. Kamerer; Portland Plant

THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK-HOLD AT AN ANGLE TO VIEW

COPPERS

NOUTRIES

PAY TO THE ORDER, OF: OREGON, ST. DEPT, ENVIRON QUAETTY

ONE THOUSAND, TWENTY, FIVE AND, OO, 100, ONLY!

OREGON, S.T. DEPT, ENVIRON, OUAETTY

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## ROPPERS INDUSTRIES, INC. PITTSBURGH PA

### PACKARA

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# APPLICATION FOR RENEWAL OF NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPDES-R)

#### STATE OF OREGON

(Attach additional sheets if necessary.)

Date Received: Amount Received:	DEQ U	SE ONLY – BUSINESS C	DEFICE
Amount Received:	Dola D	eenberigniik toorus oso.	
Amount Received:	Date No	CENTEU.	73877 1 14 2007 1 1 1 2
	Amount	Received:	<u> </u>

NOTES:

A. REFERENCE	INFORM	ATION.								
1. Koppers Industries, Inc.	4									
Legal Name of Applicant	Alternate Responsible Official									
Northwest Terminal Facility Name	Title									
2. 7540 Northwest Saint Helens Road										
Mailing Address		Address	or Location		Pl	none				
Portland OR 97210-3663	5. Present Permit No.: 100419			419						
City State Zip	ì	.:		20						
3. <u>Amos S. Kamerer</u>			77/	30/97		·				
Responsible Official	Date Expires: 11/30/9/									
Plant Manager	6. Enter S	ite Location	situde:							
Title		LATITUDE		1	LONGITUD	<del>,</del>				
(503) 286–3681	1. Deg.	2. Min.	3. Sec.	1. Deg.	2. Min.	3. Sec.				
Address or Location Phone	45	34	38	122	45	32				
X (Other) Stormwater discharged to Willamette River  B. GENERAL QUESTIONS  1. Have the treatment or disposal methods employed, as indicated in previous applications, been altered in any way since the last application was submitted? ☐ Yes ☑ No (If yes, explain:)										
	2. Has the quantity or quality of wastes discharged, as indicated in previous applications, been significantly changed in any way since the last application was submitted?   Yes  No (If yes, explain:)									
C. SPECIAL QUESTIONS AND	D REQUE	STED II	VFORM.	ATION:						
<ol> <li>If any changes in operations or waste quantity or quality are anticipate</li> <li>Please attach a brief report which indicates your progress in meeting to</li> </ol>										
I HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THE	IIS APPLICAT	TION IS TRU	JE AND C			ST OF MY				
Vice Pr				7/	29/97					
Signature of Legally Authorized Representative (See Instructions)	Title	a.			Date					
This form must be accompanied with the	appropriate l	EPA form 2B	, 2C, 2D, a	or 2E.						

### INSTRUCTION: PERMIT RENEWAL APPLICATION

- A. Reference Information: Complete the required information in detail. If there has been a name change, address change or change in personnel since the last application, please make a special note to that effect.
- B. General Questions: If more space is needed than provided on the application form, please attach as many additional pages as necessary in order to supply whatever explanation or diagrams are needed to update the treatment and disposal methods used and the characteristics of the waste discharged or otherwise disposed.

#### C. Special Questions and Requested Information:

- 1. Please elaborate on any proposed expansions, cutbacks, improvements or changes of any kind that will or may affect the quantity or quality of pollutants discharged.
- 2. Each condition of your present permit should be reviewed and an assessment made as to the success you have had in meeting the requirements and limitations.

#### Signature on Application:

#### DEFINITION

#### Signature Line — "Legally Authorized Representative":

- Corporation By a principal executive officer of at least the level of vice president:
- Partnership or Sole Proprietorship By ageneral partner of the proprietor (dwner), respectively, or
- Municipality. State, Federal, or other Public Facility By either a principal executive officer or ranking elected official.

#### Other Instructions:

Submit this application and required fees (attached) as soon as possible. They should be submitted at least 180 days prior to the expiration of your present permit.

Please return Application Fee and Application to: Department of Environmental Quality, Business Office, 811 SW 6th Avenue, Portland, OR 97204

1.D. NUMBER (copy from Item 1 of Form 1) ORDO27734359

OMB No. 2040-0086 Approval expires 5-31-92

FORM

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS

NPDES	ALIF	<b>.</b>	EXISTING M	ANUFACII	oning,		Permits Program
	ALL LOCATION		14. 1. 4744 3	e i garage		A	

NUMBER L	8.	LATITUDE	<b>I</b>	C. L	ONGITUE	E	D. RECEIVING WATER (name)
(list)	1. DEG.	2, MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
001	45	34	38	122	45	32	Willamette River
		<del> </del>		<del></del> _	<del> </del>		
		-		<del></del>	<del> </del>		<u> </u>
		1	1 1	1	ı	1 11	

#### II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary,

I. OUT-	2. OPERATION(S) CONTRIBU	TING FLOW	3. TREATMENT		
l.OUT- ALLNO (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CO	DES FRO
001	Stormwater	27,000 gal/mo.	Neutralization if needed,	2K	4A
	Boiler Blowdown		then discharged to surface	IU	
			water		
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C. Except for sto	orm runoff	, leaks, or spil			he discharge:	s described in	Items II-A or					
<u> </u>	ES (COMPI	ete the follow	ing tabl	e)			NIENCY	NO (go to thon III)				
				1			UENCY	a. FLOW RATE b. TOTAL			VOLUME	<del></del>
1. OUTFALL NUMBER (list)	(	2. OPER / CONTRIBU li:			•	B. DAYS PER WEEK (specify	D. MONTHS PER YEAR (specify	(in n 1. LONG TERM AVERAGE		(specify w		c DUR- ATION (in days)
						average)	average)	212725	DAILY	AVEALUE	DAILY	1
001	Stor	mwater				0.5	9	2.7	6.0	82.5/mo	180/mo	244
								. <b></b>	<u>-</u> .			
,												
III. PRODUCTI	ON		in viv		CANAL S		//3 (					
A. Does an effl	uent guide	line limitation ete Item III-B		ilgated	by EPA und	er Section 30	4 of the Clean		ply to your fa to Section IV,			
B. Are the limi		the applicable lete Item III-C		nt guide	eline expressi	ed in terms of	production (a		re of operation to Section IV			• .
C. If you answ used in the	ered "yes applicabl	" to Item III-B, e effluent gui	list the	quant and in	ity which re dicate the a	presents an a ffected outfal	ctual measure ls.	ement of your	level of produ	action, expres	sed in the ter	ms and units
1. AVERAGE DAILY PRODUCTION 2. AFFECTED												
B, QUANTITY PER DAY b, UNITS OF MEASURE						C. OP	ERATION, PROD (SPE	uct, materia cify)	L, ETC.			FALLS ill numbers)
							-					
		·							<b>&gt;</b> .			
						•						•
IV. IMPROVEN	MENTS	ar de Grand de Ste	11 11 10 A			16 1. 16 3.11		EST PAGE 1 1 STORY	Majorial terres (1867).	and a section of the		and the second
A. Are you no water treats	w required ment equir imited to,	d by any Fede	eral, Statices o	ate or l r any o dminist	local authori ther environ trative or enf	mental progr	ams which ma ers, enforceme	y affect the or ent compliance	discharges des	scribed in this ters, stipulatio	application?	tion of waste- This includes, iers, and grant
1. IDENTIFICA AGRE	TION OF EMENT, E	•	2, <i>j</i>		TED OUTF		3. в	RIEF DESCR	IPTION OF P	ROJECT	4. F PL// 8. # QUIT	ANCE DATE
		!	<del></del>									
		,										
	` `											
·					•							
				<u> </u>	<del></del>			·		<del></del>	1	
B. OPTIONAL your discha planned sch	<i>rges)</i> vou	now have un	derway	or wi	hich vou nis	an Indicate v	whether each	program is no	ow underway	<i>environmental</i> or planned, a	nd indicate v	ich may affect your actual or

EPA Form 3510-2C (Rev. 2-85)

PAGE 2 OF 4

CONTINUE ON PAGE 3

NTINUED FROM PAGE 2	UKDU2//34359

V. INTAKE AND EFFLUENT C	HARACTERISTICS						
A, B, & C: See instructions be NOTE: Tables V-	proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided.  B, and V-C are included on separate sheets numbered V-1 through V-9.  To the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be for every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your  2. SOURCE  1. POLLUTANT  2. SOURCE  DI COVERED BY ANALYSIS  Substance or a component of a substance which you currently use or manufacture as an intermediate or final productor						
<ul> <li>Use the space below to list discharged from any outfat possession.</li> </ul>	t any of the pollutants listed in Table 2c-3 of all. For every pollutant you list, briefly describ	the instructions, which you know or habe the reasons you believe it to be pre-	ave reason to believe is discharged or may be sent and report any analytical data in your				
1. POLLUTANT	2. SOURCE	1, POLLUTANT	2. SOURCE				
Quinoline	Coal Tar Constituent						
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		85-11216年,1986年,1986年1987年,1986年1986年,1986年1987年,1986年1987年,1986年1987年,1986年1987年,1986年1987年,1986年1987年,1986年19	整整的重要的基础的重要是由于通过在分子。				
	HARGES NOT COVERED BY ANALYSIS  In Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or  \[ \text{YES} \text{(list all such pollutants below)}   \text{NO (go to Item VI-B)} \]						
Is any pollutant listed in Item \ byproduct?	V-C a substance or a component of a substance	which you currently use or manufactu	re as an intermediate or final product or				
Is any pollutant listed in Item \ byproduct?		_					
Is any pollutant listed in Item \ byproduct?		_					
Is any pollutant listed in Item \ byproduct?  Total Phenols		_					
Total Phenols Benzene		_					
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Total Phenols Benzene Toluene Phenols Acenaphthene Acenaphtylene Chrysene Fluoranthene Fluorene Naphthalene Phenanthrene		_					

II. BIOLOGICAL TOXICITY TESTING Do you have any knowledge or reason to receiving water in relation to your discha	believe that v bio	ological test for acute or chronic to years?	oxicity has ber	ede on any of you	ır discharges or on a
•		ibe their purposes below)	Пи	O (go to Section	<i>17111</i> )
		or hier parpoor	<del></del>		7311,
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Were any of the analyses reported in Ite	m V performed by a			- Iso to Section	
Were any of the analyses reported in Ite	m V performed by a	a contract laboratory or consulting elephone number of, and pollutan atory or firm below) B. ADDRESS	its r	NO (go to Section	·
Were any of the analyses reported in Ite  TYPES (list the ranalyzed)  A. NAME	em V performed by a name, address, and to by, each such labore	elephone number of, and pollutan atory or firm below)	its r	EPHONE	D. POLLUTANTS ANALYZED
YES (list the ranalyzed	name, address, and to by, each such labor	elephone number of, and pollutan atory or firm below)  B. ADDRESS  N. Lombard Street	c. TEL	EPHONE	D. POLLUTANTS ANALYZE
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EPA Form 3510-2C (8-90)

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY, You may report some or all of
this information on separate sheets (use the same format) instead of completing these pages.
SEE INSTRUCTIONS

EPA I.D. NUMBER (copy from Item 1 of Form 1) ORDO27734359

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

001

PART A - You r	nust provide the	results of at l	east one analys	is for every pol	lutant in this ta	ble. Complete	one table fo	r each outfall.	See instruct	ions for addition	nal details.			
	2. EFFLUENT								3. UNITS		4. INTAKE (optional)			
I. POLLUTANT	a. MAXIMUM	DAILY VALUE	b. MAXIMUM 30 DAY VALUE		CLONG TERM AVRG. VALUE		] d. NO. OF	(specify if blank)		B. LONG TERM		b. NO. OF		
<u> </u>	(I)	· (2) MASS	CONCENTRATION		(1)	' (2) MASS	ANALYSES	a, CONCEN- TRATION	b, MASS	CONCENTRATION	(2) MASS	ANALYSES		
a. Biochemical Oxygen Demand (BOD)	6						1	mg/l_	lbs					
b, Chemical Oxygen Demand (COD)	9						. 1	mg/l	lbs_	:				
c. Total Organic Carbon (TOC)	7.3						1	mg/l	lbs					
d. Total Suspended Solids (TSS)	<1.0	ND					1	_mg/l	lbs-					
s. Ammonia (as N)	<1.0	ND					1	mg/l	lbs					
f. Flow .	175,000		27,000		18,000		8	N/A	gal	VALUE				
g. Temperature (winter)	VALUE 14		VALUE 14		VALUE		3	°C		VALUE		,		
h. Temperatura (summer)	VALUE 18		VALUE 18		VALUE		3	,°C	,	VALUE ;				
i. pH	6.0 7.4		6.0 7.4		16		16	STANDARD UNITS			><			

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

I. OLLO	2. MAI	ARK'X' 3. EFFLUENT									NITS		5. INTAKE (optional)		
	A. BE. LIEVEC PRE- SENT	E b. BE-	a, MAXIMUM D	AILY VALUE	b. MAXIMUM 30 DAY VALUE		C.LONG TERM AVRG. VALUE		d NO. OF	a. CONCEN-	b, MASS	a, LONG AVERAG	S TERM E value	NO. OF	
		68NT	CONCENTRATION	(2) MASS "	CONCENTRATION	(2) MASS .	(I) CONCENTRATION	. (2) MASS	YSES	TRATION	. MA33	CONCENTRATION	(2) MASS	YSES	
a. Bromide (24959-67-9)		х	<0.01	ND					1	mg/l	lbs		_		
o. Chlorine, Total Residuel		х	<0.05	ND					1	mg/l	lbs	. :			
c. Color	х		20	N/A					1	Pt-Co	N/A				
d, Fecal Coliform	х		<0.01	ND					1	Coloni 100 m					
s, Fluoride (16984-48-8)	х		0.2	0.03			•		1	mg/l	lbs				
f. Nitrate— Nitrite (as N)	x		<1.0	ND					1	mg/l	lbs				

ITEM V-B CO			OM FRONT	·	·							<del>,</del>		
1. POLLUT-		ARK 'X				EFFLUENT				4, UI	NITS		AKE (optional)	
ANT AND CAS NO.	8. 8E	P'BE-	8. MAXIŅUM E	AILY VALUE	b. MAXIMUM 30	DAY VALUE	CLONG TERM	VRG. VALUE	d, NO.OF	a, CONCEN- TRATION	h 11.55	AVERAG	VALUE	b. NO. OF
(if available)	SENT.	SENT	CONCENTRATION	(7) WASS	CONCENTRATION	(z) MASS	CONCENTRATION	(2) MASS	ANAL-	TRATION	b, MASS	CONCENTRATION	(2) MASS	ANAL.
g. Nitrogen, Total Organic (as N)	x	,	<1.0	ND			··		1	mg/l	lbs			
h. Oil and Grease	х		7.0	14.92	7.0	14.92	1.93	0.29	16	mg/l	lbs	·		
i. Phosphorus (as P), Total (7723-14-0)	Х		0.6	0.876			· · · · · · · · · · · · · · · · · · ·		1	mg/l	1bs			
j. Radioactivity	•	•												1
(1) Alpha, Total		х	N/A	N/A					0	N/A	N/A			
(2) Bets, Total		х	N/A	N/A					0	N/A	N/A			
(3) Radium, Total		х	N/A	N/A					. 0	N/A	·N/A			
(4) Radium 226, Total		х	N/A	N/A					0	N/A	N/A		,	
k, Sulfate (as SO <sub>4</sub> ) (14808-79-8)	х	·	7.3	10.66					1	mg/l	1bs	į		
l. Sulfide (as 3)	х		<0.1	ND					1	mg/l	lbs			
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)	х		<1.0	ND					. 1	mg/l	lbs_			
n. Surfactants	X		0.28	0.409		i			1	mg/l	lbs	:		
Total (7429-90-5)	Х		<0.02	ND					1	mg/l	lbs	i		
p. Barlum, Total (7440-39-3)	Х		<0.02	ND					1	mg/1 ·	lbs			
q. Boron, Total (7440-42-8)	х		<0.01	ND				-	1	mg/l	lbs		······································	
r. Cobalt, Total (7440-48-4)	х		<0.03	ND	<u> </u>				1	mg/l	lbs	!		
s. (ron, Total (7439-89-6)	х		1.0	1.46					1	mg/l	lbs			
t. Magnesium, Total (7439-95-4)	х		5.2	7.592				,	1	mg/l	lbs			
i. Molybdenum, Total (7439-98-7)	Х		<0.02	ND		•			1	mg/l	lbs			
v. Manganese, Total (7439-96-5)	Х		1.0	1.46			,		1	mg/l	1bs	1		
w. Tin, Total (/440-31-5)	х		<0.07	ND					1	mg/l	lbs	;		
x. Titenium, Total (7440-32-6)	х		<0.002	ND ·					1	mg/l	lbs			

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CONTINUE ON PAGE V - 3

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a fsecondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

		a. Not	e that t	here are / page:	s to this part; ple	ase review each	carefully. Comp	lete one table <i>(al</i>	// pages) for ea	ch outlall.	See instruction	ons for addit	ional details a	na requirem	enis.
I. POLLUTANT AND CAS	2.	MARK	'x'				EFFLUENT				· 4. UI	VITS		TAKE (opti	oual)
NUMBER	arest	b. ag-	C. BE-	a. MAXIMUM	DAILY VALUE		ODAY VALUE	C.LONG TERM	AVRG. VALUE	d NO.OF	a. CONCEN- TRATION	b. MÅSS	a. LONG AVERAG	S TERM E VALUE	b. NO. O
(if available)	RE-	PRE-	SENT	(I)	(Z) MASS	(I) CONCENTRATION	(2) MASS .	CONCENTRATION	(2) MASS	ANAL- YSES	TRATION	U. M. A.33	(I) CUNCEN-	(2) MASS	YSES
METALS, CYANID	E, ANI	TOT C	AL PHI	ENOLS								į			
1M. Antimony, Total (7440-36-0)	X	1		<0.1	ND				·	1	mg/l	lbs			
2M. Arsenic, Total (7440-38-2)	х			<0.1	ND					1	mg/l	lbs			
3M. Beryllium, Totsi, 7440-41-7)	х			<0.01	ND					1	mg/l	lbs			
4M. Cadmium, Total (7440-43-9)	х			<0.01	ND					1	mg/l	lbs			
5M. Chromium, Total (7440-47-3)	х			<0.02	ND				-	1	mq/1	lbs			
6M. Copper, Total (7440-50-8)	х			<0.01	ND.					1	mg/l	lbs			
7M. Lead, Total (7439-92-1)	х			<0.06	ND					í	mg/l	lbs			
8M. Mercury, Total (7439-97-6)	*-			<0.0003	ND	Port :			e. 2 <b>9</b>	1	mg/l	lbs	e tanifi		
9M. Nickel, Total (7440-02-0)	х			<0.03	ND	`			, i	1	mg/l	lbs			
10M. Selenium, Total (7782-49-2)	х			<0.14	ND .					1	mg/l	lbs			
11M. Silver, Total (7440-22-4)	х			<0.1	ND					1	mg/l	lbs			
12M. Thailium, Total (7440-28-0)	x			<0.3	ND					1	mg/l	lbs			
13M. Zinc, Total (7440-66-6)	х			<0.02	ND		,			1	mg/l	lbs			
14M. Cyanide, Total (57-12-5)	х			<0.01	ND					1	mg/l	lbs			
15M. Phenols, Total	х			0.86	1.256	0.86	1.256	0.149	0.037	16	mg/l	lbs			
DIOXIN								<u> </u>			•	• !			
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6)			x	DESCRIBE RES	ULTS										

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I. POLLUTANT	2,	MARK	'x'		<del></del>		EFFLUENT		·····		4, UN	lits		AKE (optic	onal)
AND CAS NUMBER	A TEST	D BE- LIEVED PRE- SENT	C 92-	a, MAXIMUM I	DAILY VALUE	b. MAXIMUM 3			AVRG. VALUE	d NO.OF	a. CONCEN-	b. MASS	A. LONG		b. NO. OF
					(2) MASS	. (I)	[2] MASS	CONCENTRATION	(2) MASS	ANAL- YSES	TRATION	u, mx33	(1) CONCEN-	(2) MASS	YSES
GC/MS FRACTION	<u>- vo</u>	LATIL	E COM	POUNDS					•					····	ļ
1V. Acrolein (107-02-8)	X.	<i>'</i>		<50	ND					1	ug/l	lbs			
2V. Acrylonitrije (107-13-1)	x			<50	ND					1	uq/l	lbs			
3V. Benzene (71-43-2)	х			29	0.042					1	ug/l	lbs			
4V. Bis (Chloro- methyl) Ether (542-88-1)	х			<5	ND					7	uq/l	lbs			
5V, Bromoform (75-25-2)	х			<b>45</b>	3775					1		lbs			
6V, Carbon Tetrachlorida (56-23-5)	x			<5	ND ND					1	ug/l ug/l	lbs		·	
7V, Chlorobenzene (108-90-7)	х			<5	ND					1	ug/l	lbs			
8V. Chlorodi- bromomethane (124-48-1)	x			<5	ND					1	ug/l	lbs		····	
9V. Chloroethane (75-00-3)	х			<25	ND					1	ug/l	lbs			
10V. 2-Chloro- ethylvinyl Ether (110-75-8)	х			<25	ND					1	ug/l	lbs			
11V, Chloroform (67-66-3)	х			<5	ND					1	ug/l	lbs			
12V. Dichloro- bromomathane (75-27-4)	x			<5	ND					1	ug/l	lbs			
13V, Dichloro- difluoromethane (75-71-8)	х			<50	ND	·				1:	ug/l	lbs			
14V. 1,1-Dichloro- ethane (75-34-3)	x			<5	ND					1	ug/l	lbs			
16V. 1,2-Dichloro- ethane (107-06-2)	х			<5	ND					1	ug/l	lbs			
16V. 1,1-Dichloro- ethylene (75-35-4)	x			<5	ND ·					1	ug/l	lbs			
17V. 1,2-Dichloro- propane (78-87-5)	x			<50	ND					1	ug/l	lbs			
18V. 1,3-Dichloro- propylene (542-75-6)	х			<5	ИĎ					1	ug/l	lbs			
19V. Ethylbenzene (100-41-4)	х			<5	ND					1	ug/l	lbs	:		
20V, Methyl Bromide (74-83-9)	х	-		<10	ND				·	1	ug/l	lbs	:		
21V. Methyl Chioride (74-87-3)	х			<10	ND			·		1	ug/l	lbs			

ORDO27734359 001 CONTINUED FROM PAGE V-4

SOLUTION PROPERTY.			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<del></del>		ORDO2773			UUL	سيسسا					
1. POLLUTANT		MARK				3,	EFFLUENT				4. UI	VITS		AKE (optio	,
AND CAS NUMBER	a rest	D se-	C BE-	a. MAXIMUM I	DAILY VALUE	b. MAXIMUM 3	O DAY VALUE	C.LONG TERM	AVRG. VALUE	d NO.OF	a. CONCEN-		A. LONG	TERM	b. NO.OF
(if available)	BH-	P BE-	AB-	(I) CONCENTRATION	(z) MASS	(1) CONCENTRATION	(2) MASS	(1)	(2) MASS	ANAL. YSES	TRATION	b, MASS	(I) CONCEN-	(2) MASS	ANAL. YSES
GC/MS FRACTION	_ 1/0	LATIN	E COM	CONCENTRATION		CONCENTRATION	12/ 11/ 11/ 11/ 11/ 11/ 11/ 11/ 11/ 11/		121				TRATION		
,	- vu	LATIL	E CUN	IPUUNUS (contin	uea)	ļ		· .					<b> </b>	<del></del>	
22V. Methylene Chloride (75-09-2)	х			<5	ND					1	ug/l	lbs			
23V. 1,1,2,2-Tetra- chloroethane (79-34-5)	х			<5	ND					1	ug/l	lbs			
24V. Tetrachloro- ethylene (127-18-4)	х			<5	ND		•			1	ug/l	lbs			
25V. Toluene (108-88-3)	х			27	0.039					1	ug/l	1bs			
26V. 1,2-Trans- Dichloroethylene (156-60-5)	Х			<5	ND					1	ug/l	lbs			
27V. 1,1,1-Tri- chloroethane (71-55-6)	х			<5	ND					1	ug/l	lbs			
28V. 1,1,2-Tri- chioroethane (79-00-5)	х			_<5	ND					1	ug/l	lbs			
29V. Trichloro- ethylene (79-01-6)	х			<5	ND				٠	1	ug/l	lbs			
30V. Trichloro- fluoromethane (75-69-4)	X			<5	ND					1	ug/l	lbs			
31V. Vinyi Chloride (75-01-4)	х			<25	ЙД		y consider the distinct transfer.	٠		1	ug/l	lbs			
GC/MS FRACTION	- ACI	р сом	POUN	DS											
1A. 2-Chloropheno (95-57-8)	х			<5	ND					ı	ug/l	lbs			
2A. 2,4-Dichtoro- phenol (120-83-2)	х			. <5	ND				·	7	ug/l	lbs			
3A, 2,4-Dimethyl- phenol (105-67-9)	х			<5	ND					1	ug/l	lbs			
4A. 4.6-Dinitro-O- Cresol (534-52-1)	x			<5	ND					1	11g/l	lbs			
5A. 2,4-Dinitro- phenol (51-28-5)	х			<50	ND					1	ug/l	lbs			
6A, 2-Nitrophenol (88-75-5)	х			<5	ND		,			1	ug/l	lbs			
7A, 4-Nitrophenol (100-02-7)	х			<50	ND					1	ug/l	lbs			
8A. P-Chloro-M- Cresol (59-50-7)	х			<2 .	ND					1	ug/l	lbs			
9A. Pentachloro- phenol (87-86-5)	х			<25	ND					1	ug/l	lbs			
10A, Phenol (108-95-2)	х			<5	ND					1	ug/l	lbs			
11A. 2,4,6-Tri- chlorophenol (88-06-2)	х			<5	ND					1	3/,	lbs			

1. POLLUTANT		MARK					EFFLUENT	· · <del>-</del>			4. UI	NITS		AKE (optic	mal)
AND CAS NUMBER	AYEST	b	C 0 %.	B. MAXIMUM D	AILY VALUE	b. MAXIMUM 3	O DAY VALUE	C.LONG TERM	AVRG. VALUE	d NO.OF	a. CONCEN-		A LONG	TERM	b. NO. OF
(if available)	auin.	D. BE- LIRVED PRE- BENT	AO.	(I)	(2) MASS	CONCENTRATION	[2] MASS	(1)	(1) MASS	ANAL- YSES	TRATION	b, MASS	(I) CONCEN-	2  MASS	YSES
GC/MS FRACTION	- BA	SE/NE	JTRAL	COMPOUNDS				20002011121100		<u> </u>			:		1
1B. Acenaphthene		,													
(83-32-9)	X	[ _[		<5	ND	f (				1	_ug/1	lbs			
2B. Acenaphtylene (208-96-8)	х			<5	ND		·.		,	1	ug/1	lbs			
3B. Anthracene (120-12-7)	х			<b>&lt;</b> 5	ND		•			,	•	3.1			
4B. Benzidine (92-87-5)	х			<10	ND ND					1	ug/l ug/l	lbs lbs			
5B. Benzo (a) Anthracene	х			20	0.029		·			1					
(56-55-3)					0.025					_ <u> </u>	ug/l	lbs	<del></del>		<del> </del>
6B, Benzo (a) Pyrene (50-32-8) 7B, 3,4-Benzo-	х			9	0.013				· · · · · · · · · · · · · · · · · · ·	1	ug/l	lbs		<del></del>	ļ
fluoranthene (205-99-2)	Х			10	0.014	·				1	ug/l	lbs			
88. Benzo (ghi) Perylene (191-24-2)	х			<5	ИĎ		- :	·		1	ug/l	lbs			
98. Benzo (k) Fluoranthene (207-08-9)	x			10	0.014					1	ug/l	lbs			
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)	x			<5	, ND		·			1	ug/l	lbs			
11B. Bis (2-Chloro- ethyl) Ether		$\neg \uparrow$			***					1	ug/l	lbs			
(111-44-4) 12B. Bis (2-Chloroiso- propyl) Ether (102-60-1)	X X			<5 <5	ND ND					1	ug/l	lbs	<u>'</u>		
13B. Bis (2-Ethyl- hexyl) Phthalata															
(117-81-7) 148, 4-Bromo- phenyl Phenyl	X			<5	ND					1 ·	ug/l	1bs			<u> </u>
Ether (101-55-3)	x			<5	ND					1	ug/l	lbs			
158, Butyl Benzyl Phthalate (85-68-7)	х			<5	ND					1	ug/l	lbs			
168. 2-Chloro- naphthalene (91-58-7)	x			<5	ND					1	ug/l	lbs			
178. 4-Chloro- phenyl Phenyl Ether (7005-72-3)	x			<5	ND		1.4			.1	ug/l	lbs			
18B. Chrysene (218-01-9)											ug/l	lbs			
19B. Dibenzo (a,h) Anthracene	x x			<5 <5	ND ND		•			1	ug/l	lbs			
(53-70-3) 20B. 1,2-Dichloro- benzene (95-50-1)	_ ^			(3)	עא										
	x			<5						_1_	ug/l	lbs			
21B. 1,3-Dichloro- benzene (541-73-1)	x			<5.	ND					1	ug/l	lbs	·		

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EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

					EPA I.D.	NUMBER (COPY	from Item 1 of F	onn II OUTFAL	L NUMBER	ļ					
CONTINUED FRO		GE V-6		•	0	RD02773435	59	00	1						
1. POLLUTANT AND CAS		MARK					EFFLUENT				4. UI	NITS		TAKE (optic	onal)
NUMBER	ATEST	LIEVE	SENT	B, MAXIMUM	DAILY VALUE		DAY VALUE	C, LONG TERM	AVRG. VALUE	L NO. OF	IS. CONCEN-	b, MASS	a. LONG	S TERM E VALUE	b, NO.OF
					{2} MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	YSES	TRATION	U, MA33	(I) CONCEN-	(2) MARE	YSES
GC/MS FRACTION	- BA	SE/NE	UTRA	L COMPOUNDS	(continued)	4 1									
22B. 1,4-Dichloro- benzene (106-46-7)	Х			<5	ND					1	ug/l	lbs			
238. 3,3'-Dichloro- benzidine (91-94-1)	x			<10	ND					1	ug/l	lbs			
24B. Diethyl Phthalate (84-66-2)	X			<5	ND					. 1	ug/l	lbs			
25B. Dimethyl Phthalate (131-11-3)	17						·								
26B. DI-N-Butyl	X			<5	ND					1_	ug/l	<u>lbs</u>	ļ		ļ
Phthalate (84-74-2)	х			<5	ND					1	ug/l	lbs			
27B. 2,4-Dinitro- toluene (121-14-2)	х			<10	ND					1_	ug/l	lbs_			
28B. 2,6-Dinitro- toluene (606-20-2)	х			<10	ND					1	ug/l	lbs			
29B. Di-N-Octyl Phthalate (117-84-0)	х			<b>&lt;</b> 5	ND					1	ug/l	lbs			
30B, 1,2-Diphenyl- hydrszine (as Azo- benzene) (122-66-7)	Х			<5	ND					1	ug/l	lbs			
318. Fluoranthane (206-44-0)	х			10	0.014			·		1	ug/l	lbs			
32B, Fluorene (86-73-7)	х			<5	ND		· · · · · · · · · · · · · · · · · · ·	i		1	ug/l	lbs			
33B. Haxachlorobenzene (118-74-1)	Х			<5	ND					1 <u>.</u>	ug/l	lbs			
34B, Hexa- chlorobutadiena (87-68-3)	х			<5	ND					1	ug/l	lbs			
358. Hexachioro- cyclopentadiene (77-47-4)	х			<25	ND		~~~~			1	ug/l	lbs			
36B. Hexachloro- ethana (67-72-1)	х			<5	ND					1	ug/l	lbs			
378, Indeno (1,2,3-cd) Pyrene (193-39-5)	х			<5	ND					1	ug/l	lbs			
388. Isophorone (78-59-1)	х			<5	ND			,		1	ug/l	lbs			
398, Naphthalene (91-20-3)	х			·<5	ND					1	ug/l	lbs			
408. Nitrobenzene (98-95-3)	Х			<5	ND					1	ug/l	lbs			
41B. N-Nitro- sodimethylamine (62-75-9)	х			<5	ND					1	ug/l	lbs			
428, N-Nitrosodi- N-Propylamine (621-64-7)	х			<5	ND		,			1	ug/l	lbs			

EPA Form 3510-2C (8-90)

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CONTINUE ON REVERSE

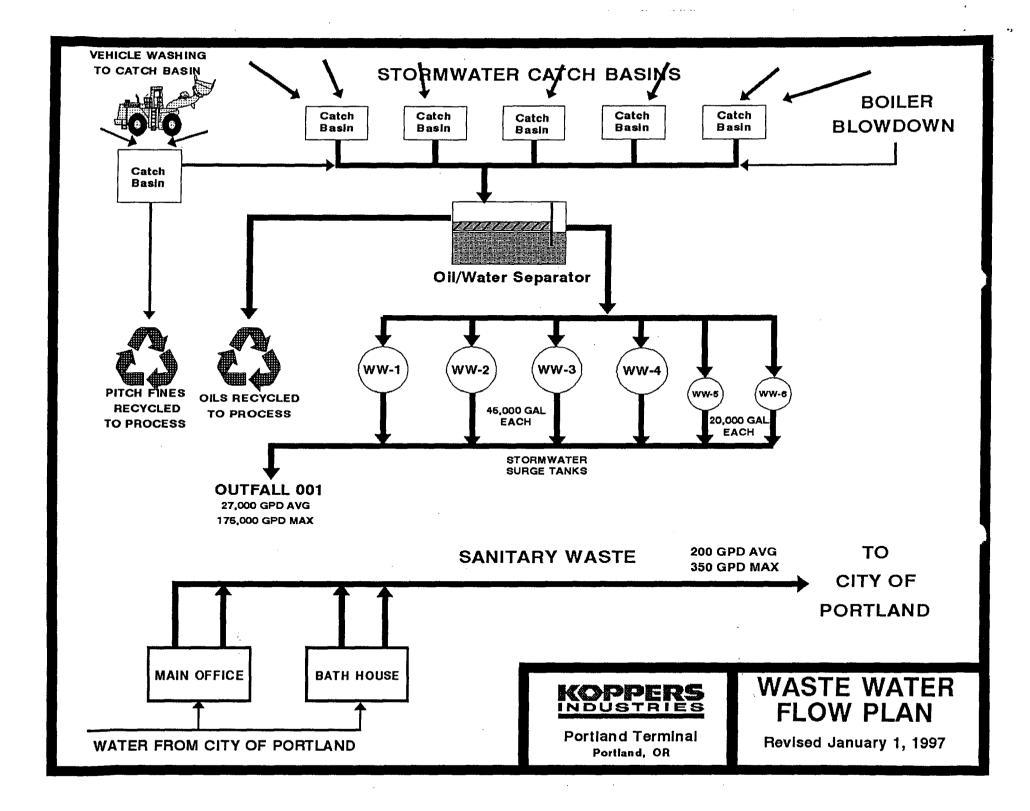
	ONTINUED FROM THE FRONT POLLUTANT Z, MARK 'X' AND CAS			····	<del></del>							· · · · · · · · · · · · · · · · · · ·			
ANDCAC							FFLUENT	CLONG TERM	AVRG. VALUE	L	4. UI	HITS	5. INT	AKE topti	<del></del>
NUMBER (if available)	ING HE-	LIEVED PRE- BENT	C. DE.	B. MAXIMUM (	(2) MASS	(I) CONCENTRATION	lable)	C.LONG TERM (II ava (I) CONCENTRATION	(2) MASS	d NO.OF ANAL YSES	B. CONCEN- TRATION	b MASS	B. LONG AVERAG	E VALUE	b. NO. OF ANAL- YSES
GC/MS FRACTION	<u> </u>			COMERMINATION		CONCENTRATION	121,	CONCENTRATION	127	1323	<del> </del>	<del></del>	TRATION	11,	1
43B, N-Nitro-					<del> </del>			<u> </u>							† <u>'</u>
sodiphenylamine (86-30-6)	Х			<5	ND 					1	ug/l	lbs			<u> </u>
44B. Phenenthrene (85-01-8)	х			<5	ND					1	ug/l	lbs			
45B. Pyrene (129-00-0)	Х			11	0.0014					1	ug/l	lbs_	·		
46B. 1,2,4 - Tri- chlorobenzene (120-82-1)	х			<25	ND			· .		1	ug/l	lbs			
GC/MS FRACTION	- PES	TICID	ES			:	·								
1P. Aldrin (309-00-2)	Х			<4	ND					1	ug/l	lbs			
2P. Q-BHC (319-84-6)	х			<2	ND					1	ug/l	lbs			
3P. β-внс (319-85-7)	Х			<4	ND .	•		.,		1	ug/l	lbs			
4P. γ·BHC (58-89-9)	х			<4	ND					1	ug/l	lbs			
бР. δ-ВНС (319-86-8)	х			<b>&lt;4</b>	ND			-		1	ug/l	lbs			
6P. Chlordane (67-74-9)	х			<4	ND					1	ug/l	lbs			
7P. 4,4'-DDT (50-29-3)	х			<8	ND			•		1	ug/l	lbs			
8P. 4,4'-DDE (72-55-9)	х			<4	ND					1	ug/l	lbs			
9P. 4,4'-DDD (72-54-8)	х			<4	ND					1	ug/l	lbs			
10P. Dieldrin (60-57-1)	х			<4	ND					1	ug/l	lbs	,		
11P, <i>Q</i> -Endosulfan (115-29-7)	х			<4	ND				·	1	ug/l	lbs			
12P. β-Endosulfan (115-29-7)	х			<8	ND					1	ug/l	lbs			
13P. Endosulfan Sulfate (1031-07-8)	х			<8	ND					1	ug/l	lbs		······································	
14P. Endrin (72-20-8)	X			<4	ND					1	ug/l	lbs			
15P. Endrin Aldehyde (7421-93-4)	х			<10	ND					1	ug/l	lbs			
16P. Heptachlor (76-44-8)	х			<4	ND					1	ug/l	lbs		TINUE ON P	

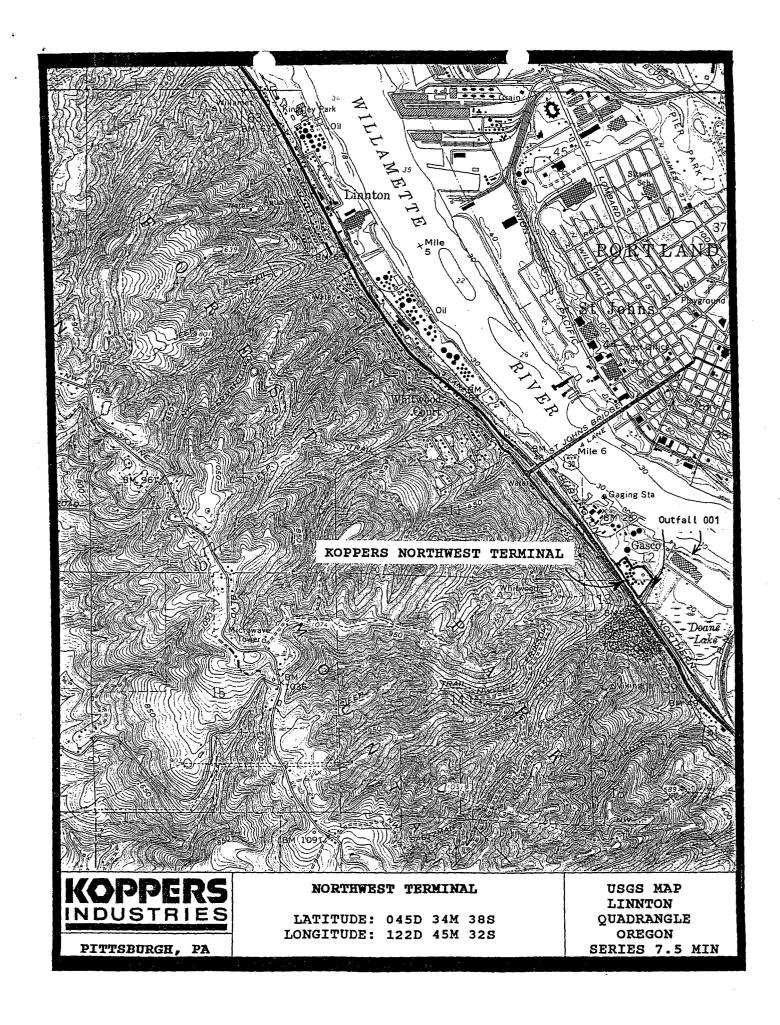
•	EPA I.D. NUMBER (copy from Item 1 of Form	I) OUTFALL NUMBER
CONTINUED FROM PAGE V-8	ORD@27734359	001

1. POLLUTÁNT	2.	MARK	'x'		· · · · · · · · · · · · · · · · · · ·	3,	EFFLUENT			1	4. UI	VITS	5. INT	AKE (optio	onal)
AND CAS NUMBER	ATEST.	U.E	TENT C BE-	a. MAXIMUM I				c.LONG TERM	AVRG. VALUE	U NO.OF	a. CONCEN-	b. MASS	A LONG		b. NO. OF
				CONCENTRATION	(2) MASS	CONCENTHATION	(2) MASS	CONCENTHATION	(1) MASS	YSES	TRATION		(1) CONCEN-	{z} MASS	YSES
GC/MS FRACTION	I - PES	TICID	ES (co	ntinued)	<u> </u>		ł	,	i	1	,	i			<u></u>
17P. Heptachlor Epoxida (1024-57-3)	х			<4	ND					7	ug/1	lbs			
18P. PCB-1242 (53469-21-9)	х			<5	ND	!		·		1 1	ug/1	lbs			
19P. PCB-1254 (11097-69-1)	х		-	<5	ND.					1	ug/1	lbs			
20P. PCB-1221 (11104-28-2)	X ·	·		<5	ND		,				ug/l	lbs			
21P. PCB-1232 (11141-16-5)	х			<5	ND						19/1	_lbs			
22P. PCB-1248 (12672-29-6)	X			<5	ND					1	ıg/1	1bs			
23P. PCB-1260 (1109\$-82-5)	x			<5	ND						1g/l	lbs			
24P. PCB-1016 (12674-11-2)	Х			< 5	ND						ig/1	lbs			
25P. Toxaphene (8001-35-2)	Х			< 5	ND						ıg/1	lbs			

PAGE-V-9

<sup>\*</sup> U.S. G.P.O.:1992-312-020:63176





Mater	the Property of the Control of the C			ommon Name: (U		•
	nply with OSHA's Hazard Communication Stand . Standard must be consulted for specific required					
SECTION 1	-					
Manufacture/a Namo	Chemical Corporation	of America				
Address	2525 S.E. 9th Avenue			nergency elephone No.	(503) 232-	-3334
City, State, 7.1P	Portland OR 97202		in:	hor formation tils	(503) 232-	-3334
Signature of Person Responsible for Pre	parellos (Opilonal)		De Pr	ale opered	9/25/91.	Revised 05/23/
SECTION 2	· Hazardous ingredient	S/IDENTITY				
lfazardous Compon	ent(s) (chemical & common name(s)	% (optional)	OSHA PEL	ACGIH TLY	Other Exposura Limits	NO.
Petroleur	n Hydrocarbon		500 ppm	200 ppm	TLV/STEL 200 ppm	64742-88-7
SARA	Section III. Section 3	113 Hazardou	Chemica	le: None		
SARA	Section III, Section 3	313 Kazardou	Chemica	ls: None	3	
SECTION 3	PHYSICAL & CHEMICAL CE	HARACTERISTIC	es es	ls: None		
ECTION 3	PHYSICAL & CHEMICAL CF	HARACTERISTIC Specific Gravity	S	1s: None	Vapor Pressure (num Hg	0 2.2
SECTION 3 - loiling 350°	PHYSICAL & CHEMICAL CH - 367° F. Yapor Denalty (Air • 1) 5.3	HARACTERISTIC Specific Gravity	(H <sub>2</sub> O = 1) O	.76	Vapor	o 2.2
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SECTION 3 -  lociting 350°  clubility Eraul 1  poperance cle  id Odor Cle  ECTION 4 -	PHYSICAL & CHEMICAL CF - 367° F.  Vapor Density (Air • 1) 5.3  sifiable  ar, Yellow Liquid, Citr  FIRE & EXPLOSION DATA	HARACTERISTIC Specific Gravity Reactly Water Melting US Odor Point	(H <sub>2</sub> O = I) O (ry in Nor Unkno	.76 16	Vapor Pressure (num Hg	o 2.2
olubility and the control of the con	PHYSICAL & CHEMICAL C	HARACTERISTIC  Specific Gravity  Reactly Water  Melting US Odor  Flammable Limits to Atr % by Yolun	(H <sub>2</sub> O = I) O try in Nor Unkno	.76 ne	Vapor Pressure (num Hg  UEL Upper 7.0	
olithing 350°  colithing 350°	PHYSICAL & CHEMICAL C	HARACTERISTIC  Specific Oravity  Reactly Water  Melting US Odor Point  Flammable Limits to Atr % by Yolun  Water spray	CS  (H <sub>2</sub> O = 1) O  ty in Nor  Unkno  LEL  c Lower 1  or fog.	.76  Ne  Own  Ofosm, dr	Vapor Fressure (num Hg  UEL Upper 7.0 y chemical	or co <sub>2</sub>
olubility Emula swater Cle ECTION 4  ECTION 4  Lash 147°F.  Little Spinition  Little	PHYSICAL & CHEMICAL CF  - 367° F.  Vapor Density (Air • 1) 5.3  sifiable  ar, Yellow Liquid, Citr  FIRE & EXPLOSION DATA  C. Method C.O.C.  Unknown Extinguisher  Modia  Do not use a direct w	HARACTERISTIC  Specific Gravity  Reactive Water  Melting Point  Flammable Limits to Att % by Yolun  Water spray  ater stream.	(H <sub>2</sub> O = 1) O ty in Nor Unkno LEL c Lower 1 or fog.	.76  Ne  Own  Ofosm, dr	Vapor Pressure (num Hg  UEL Upper 7.0 y chemical ation of w	or CO <sub>2</sub>
olubility and old of the control of	PHYSICAL & CHEMICAL C	HARACTERISTIC  Specific Cravity  Reactive Water  Water Meking Point  Flammable Limits in Atr % by Yolun  Water spray  ater stream.  elf-contained	CS  (H <sub>2</sub> O = 1) O  ty in Nor  Unkno  LEL  c Lower 1  or fog,  Avoid any	.0 foam, dr	Vapor Pressure (num Hg  UEL Upper 7.0 y chemical ation of w	or CO <sub>2</sub> veter as product
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Winds William	
SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)	CHEMCOA 1035-A
Stability Unstable O Conditions Stable OK massis High heat and open flames	
Incompatibility (Materials to A-vid) Oxidizing materials.	
Hazardous Carbon monoxide, carbon dioxide and unident	ified organics.
Hazardous May Occur Conditions Polymerization Will Not Occur Cy to Avoid None known	
SECTION 6 - HEALTH HAZARDS	
I. Acute (Immediate)  Eye & pulmonary irritation.  Z. Chronic (Delayed Effect)  None re	ported
Sim Md	s irritate eyes, mucous
membranes and upper respiratory tract.	·
Medical Conditions Generally	
Aggravated by Exposure None Known.	
	OSHA Yes ()
or Potential Carcinogen Program No & Monographs No Emergency and First Ald Providers If over-exposure occurs, follow procedures out:	
First Aid Procedures II OVER-EXPOSURE OCCURS, TOLLOW PLOCEUTES CALL	ZANSO VOZOWI
I, Inhalation	
Remove victim to fresh air. Administer oxygen.	
OF 2 Elush w/water for 15 minutes. If irritation per	
ENTRY / Wash affected area with soap and water. Launder	r clothes before reuse.
d.ingestion Do not induce vomiting. Aspiration hazard, Imme	distely consult physician.
SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES	
Precautions to be Taken Id Handling and Storage Store in a cool, dry place with adequate vo	entilation. Keep container
closed when not in use.	
Other Empty containers of this material contain residue.	Observe all hazard practices
for empty containers. Do not wold on or cut empty contain	ners.
Sulps to be Taken in Case Malerial is Released or Spilled Eliminate sources of ignition. Contain sp	Ill with a non-combustible
absorbant, and place in drums for disposal. Do not discha-	erge into sewer system.
Weste Olaporal Mejhods (Consult federal, state, and local regulations)  Dispose of wastes in compliance	with federal, state
and local regulations.	
SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURE	S
Repuntory Protection None normally required. If miscs generated, to Specify Type)	ise NIOSH approved respirator
Ymilitation Local Mechanical Special recommended Exhaus RecommendedGeneral) if needed	none Other none
	eye wash fountain
the Protective Long sleeves and trousers.	
Wash thoroughly after handling.	The state of parties o
IMPORTANT  i do not leave any blank spaces, if required information is unavailable, unknown, or does not a	apply, so ladicate.
OU-FIR Printed by Labelmaster, An American Labelmark Company, Chicago, IL 50648 (800) 621-5808	



Water Pollution Control Laboratory 6543 N. Burlington Ave., Portland, Oregon 97203-5452 (503) 823-5600

December 7, 1999

Koppers Industries, Inc. William E. Swearingen 436 Seventh Ave Pittsburgh, PA 15219-1800

RE: Renewal of Industrial Wastewater Discharge Permit #314 001

Dear Mr. Swearingen:

Thank you for returning your permit renewal material before the deadline date. I apologize for the delay on my part. Enclosed please find:

- Renewed: Industrial Wastewater Discharge Permit (#314.001)
- Industrial Source Control Division Statement of Non-Discharge, due January 21, 2000
- ASPP review, due January 21, 2000
- Current fact sheet for your review.

The enclosed permit has been modified, with minimum requirements, for those industries that have no potential to discharge to the City sewer system. The new permit will ease the cost of the new service fees to a flat rate of \$422.00 annually. This fee will be assessed at a rate of 1/3 of the actual amount with the full fees to be phased in by July 2001.

There is no longer a Non-Discharge Certification Report due semi-annually however, there will be an annual inspection performed and an annual Certification Report at that time. Also, I ask that you review and update, if necessary, your current Accidental Spill Prevention Plan. If after your review, you find that no revisions are needed, please send a letter indicating no revisions were needed by January 21, 2000.

If you have any questions or comments, please do not hesitate to contact me at (503) 823-5556.

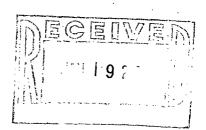
Respectfully,

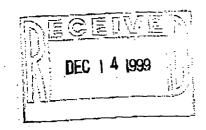
Colleen F.G. Harold, Permit Manager

Colleen J. S. Harold.

Industrial Source Control Division, Bureau of Environmental Services.

M. Cilley, Stickney







Water Pollution Control Laboratory 6543 N. Burlington Ave., Portland, Oregon 97203-5452 (503) 823-5600

> Expiration Date: 10/1/2004 Permit Number: 314.001

12:22

## Categorical Industrial User Permit (No Potential to Discharge)

Issued to:

Kopper's Industries, Inc.

Plant Type:

Blending and melting of creosote and tar pitch

Location:

7540 NW St. Helen's Rd.

Portland, OR 97210

SIC Code:

2865

**EPA Category**:

414.7 Organic Chemicals

Responsible Official:

Amos Kamerer

Phone Number:

(503) 286 - 3681

**Expiration Date:** 

10 / 1 /-2004

The permitee is authorized to discharge domestic wastewater and non-categorical regulated process wastewater to the City of Portland city sewer system in compliance with Chapter 17.34 of the City Code. No industrial process wastewater associated with 40 CFR #414.7 Bulk Organic, Processing shall be discharged to the city sewer without prior written approval from the City.

It is the permittee's duty to comply with all conditions of this permit. Any non-compliance of this permit constitutes a violation of Chapter 17.34 of Portland's City Code and, as such, subjects the permittee to enforcement actions.

Effective Date: This permit shall be effective on the date signed below, and shall supercede all previous permits. This permit shall remain in effect for five years or until notification of termination is received from the City, whichever comes first.

Industrial Source Control Manager:

12 - 15-

•

Prepared By: Checked By:

CHAH.

Effective Date:

DEC | 4 1999

Schedule A Compliance Conditions

Expiration Date:
Permit Number:

10 /1/2004 314.001

Page:

1

## Schedule A Compliance Conditions

### I. Administrative Requirements:

a. Non-Transferability

This permit is not transferable. In case of a change of ownership, the permittee shall notify the City with the change, along with the name, address and phone/fax numbers of the new owners. The new owners shall contact the City and request an issuance of a new NDCIU permit.

#### b. Records Retention

All records of activities to comply with this permit shall be retained by the industry for a minimum of three years. This retention period shall be extended during the course of any unresolved litigation pertaining to the discharge of pollutants by the authorized discharger or whenever, it is requested by the City.

### c. Accidental Spill Protection Plan (ASPP)

If chemicals are on site then they must be stored in a manner that will prevent the entry of these substances into the sanitary, combined, or storm sewer system or waters of the state. If chemicals are used or stored the industry must prepare and submit to the City, for approval, an ASPP within 90 days of the permit effective date. The plans shall include the following elements:

- A description of the hazardous substances handled and their potential points of entry into the City sewer system or storm runoff.
- A description of the measure to be taken to prevent entry at the described points and the measures to contain a spill if one occurs.
- A description of employee training in the prevention and control of spills.
- A posted notice informing employees that the discharge of industrial wastewater is prohibited and that notification must be made to the Bureau of Environmental Services (BES) at 503-823-7180 in the event of any spill, accidental or uncontrolled.

### d. Right of entry

The industry shall, at all reasonable times, allow authorized City representatives to enter and have access to the permittee's premises for the purposes of inspecting and evaluating any certification records, or disposal methods associated with this permit.

Schedule A
Compliance Conditions

Expiration Date:
Permit Number:

10 /1/2004 314.001

Page:

)

## II. Reporting Requirements:

a. Non-Discharge Certification

A Statement of Non-Discharge certificate must be signed annually by the responsible official or designated authority. This certificate must be submitted to the City no later than January 15 of the following year.

b. Changes in Wastewater Characteristics

The authorized permittee shall give notice to the Industrial Source Control Division, 90 days before any facility expansion, production increase, or process modifications resulting in a potential to discharge or resulting in a change in status of potential to discharge.

c. Accidental Spill or Discharge

The authorized permittee shall notify the City immediately, either in person or by telephone (503-823-7180), if any accidental spill or discharge to the sanitary sewer occurs. A formal written report, discussing circumstances and remedies, shall be submitted to the City within 5 days of the occurrence.

d. Hazardous Waste Notification

The industrial user shall notify the Industrial Source Control Division Section, the POTW, the EPA Regional Waste Management Division Director, and State hazardous waste authorities in writing of any discharge into the POTW of a substance, which, if otherwise disposed of, would be a hazardous waste as set forth in 40 CFR Part 261. Such notification must include the name of the hazardous waste as set forth in 40 CFR Part 261, the EPA hazardous waste number, and the type of discharge (continuous, batch, or other). If the industrial user discharges more than 100 kilograms of such waste per calendar month to the POTW, the notification shall also contain the following information to the extent such information is known and readily available to the industrial user: an identification of the hazardous constituents contained in the wastes, an estimation of the mass and concentration of such constituents in the wastestream discharged during that calendar month, and an estimation of the mass of constituents in the wastestream expected to be discharged during the following 12 months.

c. Plant Closure

In the event the authorized permittee plans to cease operations at the present business location, and decide not to relocate within the City of Portland's jurisdiction, the authorized permittee shall inform this office, in writing, 60 days prior to plant closure.

f. The City may be notified at 503-823-5600 (telephone), 503-823-5559 (facsimile), or write

Industrial Source Control Division Bureau of Environmental Services 6543 N Burlington Avenue Portland, OR 97203



Water Pollution Control Laboratory 6543 N. Burlington Ave., Portland, Oregon 97203-5452 (503) 823-5600

## Industrial Source Control Division Statement of Non-Discharge

Company Name:		
Facility Address:		· ·
Telephone Number:	(503)	
I certify under penalty of law the	nat for the year: 1999	<b>)</b> ,
☐ NO CATEGOR of Portland's sev		EWATER was discharged to the City
☐ Yes ☐ N		rocess Wastewater was discharged to d's sewerage system. (Please mark one).
		ng all wastewater generated from my plicable City, State and Federal laws and
wastewater or non-categoric	al process wastewater is di t penalties for submitting f	ring that, as of this date, only domestic ischarged to the City's sewer system. I am alse information, including the possibility
Authorized Official Signature:		<del></del>
Title;		
Date:		
		•

This report is due to the City of Portland, at the above address, by January 15, 2000.

## CITY OF PORTLAND - INDUSTRIAL SOURCE CONTROL DIVISION INDUSTRY FACT SHEET - INDUSTRIAL USER INFORMATION

Company Name:

Kopper's Industries, Inc.

**Nature of Business** 

Blending and melting of Creosote and tar Pitch.

Site Address:

7540 NW St. Helen's Rd.

Malling Address:

William E. Swearingen

#577 P.05/12

Portland, OR 97210

436 Seventh Ave.

Signatory Auth.:

**Amos Kamerer** 

Alternate Contact:

Pittsburgh, PA 15219-1800 William E Swearingen

Plant Mgr.

Telephone #;

(503) 286 - 3681

Telephone #:

(412) 227 - 2883

Facsimile #:

(503) 285 - 2831

Facsimile #:

(412) 227 - 2423

Permit #:

#314 - 001

SIC Code:

2865

Permit Manager:

Colleen F.G. Harold

Prev. Permit Mgr.:

Stephen Rosenberger Christina Anderson

**Expiration Date:** 

10/1/1999

Last Permit Rev.:

Water Account #:

#4640172034 M 0178

Water Usage (GPD):

7,650 gpd

Discharge (GPD):

315 gpd

# of employees:

10

Hours of Prod.:

24 hr. 4-5 days / week

# of Shifts:

3 shifts

Total Area:

6.4 Acres

Area to Storm

5.8 Acres

Storm. Permit #:

# 47,430

Permit Manager:

John Holtrop

Main Pump Station

Other Environmental

Permits:

NPDES #101003 **DEQ Air Permit** 

**USEPA Category:** 

US EPA Category - 414.7 (Organic Chemicals)

CoP Classification:

P-4, Categorical IU Non-discharger (300 Series Permit)

Point of Compliance:

End-of-process

**Emergency Contact** 

Amos Kamerer

After Hours phone

(503) 286 - 3681

Safety

Steel Toed Boats, Hard Hat, Safety Glasses

Considerations:

\\ARIEL\GRP102\CUSTOMER\IU-K\KOPPERS\PERMIT\FORMS\99fctsht.doc

### Resources used to prepare the Fact Sheet. Check all that apply

Preyout Cermit	1	Monipodine Data	<b>✓</b>
Permit & polication	1	MSDS Information	1
Survey Tonical Control	<b>✓</b>	thre Washell Report to	1
Sugger II		Ske Individ	✓
STATURIE HOUSE	1	Corporate Report	
Compliance History	<b>√</b>	Samilias Operations	<b>√</b>

#### 1. <u>BUSINESS DESCRIPTION:</u>

Kopper's Industries Inc. is a terminal facility for coal tar based products handling pencil pitch, liquid pitch, creosote, creosote distillates and refined coal tars. As of 1999 they no longer handle coal tar. Kopper's Industries, Inc. performs blending and melting of Coal products including Creosote and Tar Pitch. They take in raw materials, melt, blend, and ship out product. No water is used in their process and no wastewater is generated. They distribute 1,500 tons a week of product by rail and truck. The product is used in cosmetics and aluminum foundries.

They have an NPDES Permit for storm water runoff and boiler blown down discharge to the river. The tank farm consists of 3 tanks with hot oil, 2 with Pitch and 3 tanks for storm water collection. All storm water goes to the tank farm and through the oil water separator.

Kopper's and Pacific Northern Oil are tenants of NW Natural Gas. Kopper's was started in 1965 and NW Natural Gas has been on the site since 1912. They are presently adding a new dock and pipeline as well as, two large storage tanks for liquid pitch (1998-1999). The line travels the footbridge at an 8-inch diameter and once it clears the bridge and a pump it expands to a 10-inch diameter. The pipeline has built in expansion loops to accommodate the cooling and heating of the product (It expands as a liquid). Kopper's expects to be handling two million gallons (10,000 short tons) of liquid material by 2002.

Kopper's Industries, Inc is a categorical IU, per 40 CFR 414.7. Because they are non-discharging, they are given a 300 series permit.

#### 2. DESCRIPTION OF PROCESSES GENERATING WASTEWATER:

#### 2a POTENTIAL TO DISCHARGE (For Non-Dischargers)

In the event of not being able to meet the NPDES Permit requirements they might be forced to release directly to the City of Portland's sanitary sewer.

Domestic Sanitary Wastewater NPDES Permit. – Storm Water & Boiler Blow Down

#### 3. RAW WASTEWATER DESCRIPTION:

This facility does not produce process wastewater. Stormwater is discharged through a regulated outfall into the Willamette River in compliance with their NPDES permit. Only sanitary waste is discharged to the city sewer.

### 4. PRETREATMENT

No wastewater is produced in their process.

\\ARIEL\GRP102\CUSTOMER\IU-K\KOPPERS\PERMIT\FORMS\99fct=bt\_doc

## 6. ANALYSIS OF DISCHARGE DATA: No Data Available

Pollutants of Concern # Violations/#Spl.		Compa	ny Data			
·		Avg. For Period 01/92-11/96	Maximum Value	Local Limit (Flow Weighted Average Adjusted 1992 Data)	Pollutant Level of Concern	
Arsenic	0/0	**				
Cadmium	0/0				·	
Chromium	0/0				·	
Copper	0/0				·	
Lead	0/0					
Molybdenum	0/0					
Nickel	0/0	·		·		
Selenium	0/0				·	
Silver	0/0				·	
Zinc	0/0			·		
Cyanide-T	0/0					
Oil/Grease (NP)	0/0					
pН	0/0					
TSS	0/0					

#### 7. POLLUTANTS OF CONCERN:

Kopper's Industries Inc. is a terminal facility for coal tar based products handling pencil pitch, liquid pitch, creosote, creosote distillates and refined coal tars. Occasional spillage of materials from loading and unloading operations has warranted paving and berming to ensure adequate containment of materials. They are also on a clean sweep schedule 10 times a year. Most materials are cleaned up and recycled back into product those that aren't are hauled away by Chem-Waste out of Hillsboro. Most material is inert and can be land filled.

## 8. <u>DISCUSSION OF PERMIT SPECIFIC LIMITS:</u> None

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## 9. <u>APPLICABLE LIMITS</u>: (mg/l) (indicated in bold)

Parameter :	Required In		Local Limit	Pernit	Categoricat Limit Dally Max. Die
	ocnocule 5	Cast Aluminum		Limits	Cast Zinc
arsenic	0.2	Proce Process of seasons that is an environment and the seasons about	0.3		
cadmium	0.7		0.7		
chromium	5.0		3.8		
copper	3.7		2.3		
lead	0.7	· .	0.7		
mercury	0.010		0.014		
molybdenum	1.4				
nickel	2.8		3.0		
selenium	0.6				
silver	0.4		0.4		
zinc	3.7	4	4.0		
total phenols					
pH	5.0-11.5				
cyanide	1.2				
_cyanide					
NP oil/grease	110				
ПО		÷			
Sulfide (dissolved)	4.0				

Bolded Values represent applicable limits that appear in Schedule A of the Permit. Pollutants that are bolded and underlined represent parameters that will be monitored by the industrial User.

## 10. <u>ADDITIONAL MONITORED POLLUTANTS:</u>

None

## 11. <u>SUMMARY OF COMPLIANCE HISTORY:</u>

Good compliance history, no violations.

## 10. MONITORING AND REPORTING ANALYSIS: (Refer to Discharge Risk Analysis Score Table)

in the same of the same of the same of the same of the same of the same of the same of the same of the same of	Nime in the continuous continuous sur in income	<u>, NCC 21 Pringhting on Significan</u>
Q <sub>flow</sub>	Domestic	0
N pollutants	3	1
BOD <sub>averaĝe</sub>	N/A	0
TSS <sub>average</sub>	N/A	0
pH <sub>potential</sub>	None	0
Chemical Storage	High	3

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12:25

<del>Ken</del> tiké dikédaké <u>P</u>	rangan kangan kangan kangan kangan kangan kangan kangan kangan kangan kangan kangan kangan kangan kangan kanga Kangan kangan kangan kangan kangan kangan kangan kangan kangan kangan kangan kangan kangan kangan kangan kanga	<u></u>
Pretreated pollutants		0
TOTAL:		4

286 3681

## Discussion -

Q - Domestic sewer flow 515 gpd to the City Sewer

Np-

**BOD - None** 

TSS - None

pH - .No pH problems

Chemical Storage -Pencil Pitch storage buildings, also keep three drums of diesel fuel.

P<sub>N</sub> -

**DRA** Determination Table

ininia di Selektro Propinsi Pr	Samples "per year	Samples per Year	(pspecial) is per		
a dan dan dan dan dan dan dan dan dan da		2	bi-annual		
7-11	2	4			1.00
12-16	4	6	Territoria de la compansión de la compan	PENCHALAN PRINCIPLAN MITTERS PROFILE P	
21	-6	8		parties characteristics and continues and co	
22.26	8	12			A.C A.C. C TEGICO CONTRACTOR OF THE CONTRA
27431	::12:::	26	2		152
	26	<b>52</b>	2.4		

## MINIMUM INDUSTRIAL USER COMPLIANCE MONITORING REQUIREMENTS

		Monitoro	ig <b>Fraggency</b>
Analysis	City Monitoring	Self Monitoring	Inspection Frequency
Minimum Requirement P-1	Semi-Annual	Quarterly	Annual
Mineson Requirement Pic.	Annual	Semi-annual	Bi-annual
TOP Resident	1	2	Annual
Retrontential :	Semi-Annual	Semi-annual	Annually

Note: If the recommendation is different than the DRA guidance, please explain. \\ARIEL\GRP102\CUSTOMER\IU-K\KOPPERS\PERMIT\FORMS\99fctsht.doc

## 13. PERIODIC SELF MONITORING FREQUENCY

	Magnarian den esta legit (est letter et proposition de la proposition de la proposition de la proposition de l
DRA	0
	O
oretieny.	0
	Semi - Annual Non-Discharge Certification Report Submitted twice yearly.
<b>WANTED</b>	0
Speak Flexore:	None at this time.

- 14. SPECIAL CONDITIONS: None
- 15. <u>MISCELLANEOUS INFORMATION:</u>
- 16. <u>ATTACHMENTS:</u>
  - A: PROCESS DIAGRAM:
  - B: <u>DIAGRAM OF DISCHARGE POINTS & POINT OF COMPLIANCE:</u> N/A
  - C. CLASSIFICATION FORM #5-2
  - D: <u>DISCHARGE LIMITS CALCULATIONS</u>: N/A
  - E: PRODUCTION DATA: N/A
  - F. CMS FORM N/A non discharger

## Log of Fact Sheet Changes

10/.20/1998	Updating fact sheet for industries
6/23/99	Updated fact sheet from Inspection
10/3/1999	Permit Renewal

\\ARIEL\GRP102\CUSTOMER\IU-K\KOPPER\$\PERMIT\FORM\$\99fctsht.doc

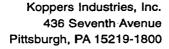
Prepared by:	Colleen F.G. Harold	Date:	10-4-1999	_
TL Approval:	mas	Date:	10/11/29	
For New/Renewe	d Permits:			
ISCD Approval:		Date:		

Attachment C. INDUSTRIAL USER CLASSIFICATION EVALUATION SHEET Applicable Classification is denoted by bold typeface.

	DESCRIPTION	CLASS
1.	Categorical regulated IU with regulated process discharge	P-1
2.	Non-categorical IU with process discharge >25,000 gpd	P-1
3.	Non-categorical IU with process discharge <25,000 gpd and/or ESSC	P-2
4.	Non-categorical IU with process discharge <25,000 gpd and is required to pretreat wastewater (excludes O/WS)	P-2
5.	Non-categorical IU with process discharge <25,000 gpd with a POC above PLOC in discharge	P-2
6.	Non-categorical IU with a process waste mass discharge of a POC $\geq$ 10,000 gpd $LL_{sq}$ mass discharge	P-2
7.	Non-categorical IU with a process discharge <6,000 gpd and a POC greater than a PLOC or requires a O/WS or ASPP	NP-1
8.	Non-categorical IU with process discharge <6,000 gpd with no POCs in wastewater or need for an ASPP or POC level is less than PLOC	NP-2
9.	Non-categorical IU with no process waste discharge but is a division D manufacturer and/or has potential for spills of hazardous substances	NP-3
10.	Non-categorical IU with no process waste discharge, no manufacturing and no potential for spills of hazardous substances (office, shoe store, steel brokerage office)	NP-4

If, as a result of this review and Fact Sheet preparation, a permit is not issued, discuss reasons and forward to Permitting Section Supervisor.

\\ARUEL\GRP10Z\CUSTOMER\IU-K\KOPPERS\PERMIT\FORMS\99fctsht.doc





Telephone: (412) 227-2001 Fax: (412) 227-2423

September 13, 1999

City Of Portland Environmental Services Water Pollution Control Laboratory 6543 N. Burlington Ave. Portland, Oregon 97203-5452

Colleen F. G. Harold, Permit Manager Industrial Source Control Division, Bureau of Environmental Services

RE: RENEWAL OF INDUSTRIAL WASTEWATER DISCHARGE PERMIT #314-001

#### Dear Colleen:

Enclosed please find a completed renewal application for Industrial wastewater permit #314-001. A \$50 renewal fee is also enclosed. Koppers Industries Inc. (KII) understands the current wastewater discharge permit will be extended until the permit is renewed.

If you have any questions please contact me at (412) 227 2883.

Sincerely,

Traci I. Self

Environmental Manager

Enclosure (1)

cc: Amos Kamerer Mark Cilley

	US Postal Service Receipt for Certified Mail				
	No Insurance Coverage Provided.				
_	Do not use for International Mail (See reverse)  Sent to				
1800	City of Portland				
ω̈	Street & Number				
_	6543 N. Burlington Av				
	Post Office, State, & ZIP Code				
Ŧ	Portland, OR 97203-5452				
Self	Postage \$ 99				
	Certified Fee				
	Special Delivery Fee SP				
10	Restricted Delivery Fee				
199	Return Receipt Showing to Whom & Date Delivered				
<b>800</b> , April 1995	Return Receipt Showing to Whom, Date, & Addressee's Address				
800	TOTAL Postage & Fees \$ 3.64				

PS Form 3800, April 1995 (Reverse)

Stick postage stamps to article to cover First-Class postage, certified mail fee, and charges for any selected optional services (See front).

- 1. If you want this receipt postmarked, stick the gummed stub to the right of the return address leaving the receipt attached, and present the article at a post office service window or hand it to your rural carrier (no extra charge).
- 2. If you do not want this receipt postmarked, stick the gummed stub to the right of the return address of the article, date, detach, and retain the receipt, and mail the article.
- 3. If you want a return receipt, write the certified mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise, affix to back of article. Endorse front of article RETURN RECEIPT REQUESTED adjacent to the number.
- 4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse RESTRICTED DELIVERY on the front of the article.
- 5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in item 1 of Form 3811.
- 6. Save this receipt and present it if you make an inquiry.

102595-97-B-0145

Water Pollution Control Laboratory 6543 N. Burlington Ave., Portland, Oregon 97203-5452 (503) 823-5600

# INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION

The City of Portland (the City) is required by the federally mandated Pretreatment Program (40 CFR 403.8(f)(2)), to develop and implement procedures that:

- (1) Identify and locate all possible Industrial and Commercial Users which might be subject to the Publicly Owned Treatment Works (POTW) Pretreatment Program requirements.
- (2) Characterize the type and volume of pollutants contributed to the POTW by the Industrial and Commercial Users as identified under (1) above.

By completing the *Industrial Wastewater Discharge Permit Application*, you are helping the City complete its requirements.

## Confidential Information

As outlined in 40 CFR 403.14 (a)-(c) and ORS 192.430, any information submitted to the City under the Pretreatment Program requirements may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission in the manner prescribed on the application form or instructions, or, in the case of other submissions, by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, the City may make the information available to the public without further notice. If a claim is asserted, the information will be treated in accordance with the procedures in 40 CFR part 2 (Public Information) and ORS 192.440(2).

Information and data provided to the City under these requirements which is effluent data shall be available to the public without restriction.

All other information which is submitted to the State or POTW shall be available to the public at least to the extent provided by 40 CFR 2.302 and ORS 192.440(2).

If, at any time, there is insufficient space to complete an answer, continue your response on a separate piece of paper. Indicate the section and question number next to your response.

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## INSTRUCTIONS: NDUSTRIAL WASTEWATER PEI IT APPLICATION SECTION I: GENERAL FACILITY INFORMATION

- 1. Enter the name of the company, *i.e.*, the name of the company legally responsible for this facility.
- 2. Enter the name of the facility, such as the name used on letterhead and/or correspondence or advertising.
- 3. Enter the street address where the facility is located.
- 4. Enter the *mailing* address of the facility, if different from the facility street address above.
- 5. Enter the name, title, telephone number, and fax number of the person who is most familiar with the facts reported on this form and who can be contacted by City staff. Generally, this person is the facility's maintenance supervisor or engineer.
- 6. Enter the approximate month and year that operations began, or are proposed to begin, otherwise use best estimate.

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## INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION

## **SECTION I: GENERAL INFORMATION**

Confidential Information - Indicate those sections of this application that you wish to remain

confidential <u>as well as</u> your reasons for requesting the considered confidential.	iring confidentiality. Wastewater	
1. Koppers Industries, Inc.		
(Company Name)		
2. Portland Terminal		
(Facility Name)		
3. 7540 NW Saint Helens Road		
(Facility Address, St	treet)	
Portland	OR	97210-3663
(City)	(State)	(Zip Code)
4. same as facility		
(Mailing Address, S	treet/PO. Box)	
(City)	(State)	(Zip Code)
5. Provide the name of the person to co	ntact on information contained in	this questionnaire:
Amos Kamerer		503-286-3681
(Name)		(Phone)
Plant Manager		503-285-2831
(Title)	VALUE	(Fax)
	1005	
6. Initial startup date of operations at this fa	acility: 1905	

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# INSTRUCTIONS NDUSTRIAL WASTEWATER PE IIT APPLICATION SECTION I: GENERAL FACILITY INFORMATION, Continued

- 7. Enter the name, title, telephone number, and fax number of the person who is responsible for responding or organizing a response to emergencies at this facility, and who can be contacted by City staff. These emergencies may include spills and chemical releases, fires, floods, or earthquakes.
- 8. Check the appropriate box and make the necessary changes or corrections to the enclosed document, if needed.

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## SECTION I: ENERAL FACILITY INFORMAT N, Continued

1.	Person to be contacted in case of an emergency at this facility:		
	Amos Kamerer	503-286-3681	
	Name	Phone	
	Plant Manager	503-285-2831	
	Title	Fax	
8.	Is all of the information previously submitted in your facility current, up-to-date, and correct?	y's Environmental Survey Part II, still	
	Yes [X ] No [ ]		
	(A copy of your facility's Environmental Survey P	art II is included for your reference }	

If you checked No, make the needed changes to the enclosed Environmental Survey Part II, initial and date all changes and send in the corrected copy of the Survey with the completed Permit Application.

## INSTRUCTIONS INDUSTRIAL WASTEWATER PUMIT APPLICATION SECTION II: FACILITY PROCESS FLOW IN ORMATION

- 1. Provide the daily average flows discharged in gallons per day (gpd) for the last 12 months. For estimating sanitary flow, use 25 gallons per employee per day. Be as specific as possible. If the exact amount of water is not known for each item, then estimate the amount as best as possible and note how the estimation was determined.
- 2. Check the appropriate box and provide the necessary information.

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SI SEE ATTACHEO  1. For your facil manufacturing	OCESS FLOW IN	IF MATI	ON	<del></del>
1. For your facil manufacturing	for each of your proce that may generate pro			(i.e.,
Total Plant Flow in Gallons Per Day (	gpd) discharged to the s	anitary sewer	collection sys	stem:
Daily Average 275	Daily I	Maximum <u>3</u>	50	
Individual Process Flows in Gallons P	er Day (gpd)			
Process Description		Average Flow, gpd	Maximum Flow, gpd	Type of discharge
Sanitary		275	350	batch
Discharge to surface waters (NPDES): Boiler blowdown/storm water		21,302	F2 F90	hatah
BOTTER BLOWGOWITY SCORIN WALER		21,302	52,580	batch
2. Is an inspection or sampling manhole structu	ure available on-site?	Yes [ ]	N	o [x]
• If No, is one planned?		Yes [ ]	N	o [X]
• If Yes, provide location below and inclu- Attachment B).	ude as part of the proces	ss flow schem	natic (see also	
Location description:				
			· · · · · · · · · · · · · · · · · · ·	
				<del></del>

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## INSTRUCTIONS: INDUSTRIAL WASTEWATER PERMIT APPLICATION SECTION II: F. ILITY PROCESS FLOW INFORM. MON, Continued

- 3. Check the appropriate boxes and provide the required information.
- 4. Briefly describe any previous spills of raw materials, products, or process wastes that were or may have been discharged to the sewer collection system. Also list all corrective actions that were taken to clean-up the spills and procedures that were put in place to prevent a re-occurrence.

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## SECTION II: F. ILITY PROCESS FLOW INFORM FION, Continued

3.		plan to have, automatic sam nent in use or included in fut		ontinuous wast	ewater flow
•	Current:	Flow Metering	Yes [ ]	No [X]	N/A [ ]
		Sampling Equipment	Yes [ ]	No [x]	N/A [ ]
•	Planned:	Flow Metering	Yes [ ]	No [X]	N/A [ ]
		Sampling Equipment	Yes [ ]	No [X]	N/A [ ]
		the equipment below and incorporate by schematic in Attachment B		future location	of this equipment on
4.	from the fac	ibe below, or on a separate s ility. Also list the clean-up a vent a reoccurrence.			
0	ccasional spi	llage of materials fr	om loading/unloa	ding operat	ions. Paving
р	aving and dik	ing controls are adeq	uate to contain	materials.	Most materials
a	re cleaned up	and recycled back to	product. Any s	olid waste :	is disposed of
i	n an appropri	ate manner.			
-					
				<u> </u>	
	,				

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## INTRODUCTION INDUSTRIAL WASTEWATER PE' MIT APPLICATION SECTION ALI: FACILITY WASTEWATER IN JRMATION

This section, in two parts, details the collection of the necessary quantitative wastewater information required to establish applicable pretreatment limits and monitoring requirements for each industrial user. Contact the Industrial Source Control Division if there are any questions on what limits apply, what parameters to sample, sampling requirements, and from where to take the samples. Samples should be taken of the final effluent prior to discharge to the City's sewer collection system. If there is more than one discharge of process wastewater to the City's sewer lines, photocopy this page and supply the analytical results for all process wastewater discharges.

Existing Facility: (report results in concentrations (mg/L) or mass (lbs))

Each facility will sample, have analyzed, and report on all pollutants as specified by the City. If mass limits apply, the facility must report results on a mass basis (concentration x regulated process flow). Attach all calculations.

Samples collected must be representative and taken during peak production. Samples must be collected each day for three consecutive days, and analyzed separately.

New Facility: (report results in concentrations (mg/L) or mass (lbs))

This includes a new business moving into an existing facility or a new business proposing to construct a new building. A new facility should be in compliance with applicable pretreatment standards upon commencement of discharge and is required to sample and submit the final compliance report within 30 days of commencement of discharge. Because no discharge of process wastewater has occurred, provide your best estimate of the discharge. This estimate shall be confirmed through monitoring of the facility's effluent.

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### TABLE 1 APPLICABLE LIMITS: 1

Parameter	Suggested Analysis Method	Local	Sample Type, Grab or	Required Sampling
1. m. m. m. c. c.	40 CFR 136	Limit	Composite	Camping
Metals		;		
Arsenic	200.7	0.2 mg/L	Composite	
Cadmium	200.7	0.7 mg/L	Composite	
Chromium	200.7	5.0 mg/L	Composite	
Copper	200.7	3.7 mg/L	Composite	
Lead	200.7	0.7 mg/L	Composite	
Mercury	245.1	0.010 mg/L	Composite	
Molybdenum	200.7	1.4 mg/L	Composite	
Nickel	200.7	2.8 mg/L	Composite	
Selenium	200.7	0.6 mg/L	Composite	
Silver	200.7	0.4 mg/L	Composite	
Zinc	200.7	3.7 mg/L	Composite	<u> </u>
Non-Metals				·
BOD <sub>5</sub>	405.1		Composite	
Closed Cup Flash Point	ASTM D-93-80	>140 °F	Grab	
Cyanide	335.2	1.2 mg/L	Grab	
Non-polar Fats, Oil, &	1664	110. mg/L	Grab	İ
Grease				
pН	150.1	5.0-11.5	Grab	
		S.U.	· · · · · · · · · · · · · · · · · · ·	
Total Toxic Organics	624 & 625	2.13 mg/L		
Total Suspended Solids	160.2		Composite	
Sulfide	376.2	4 mg/L	Grab	<u> </u>
Individual Organic				
Compounds	(05	004 7		<u> </u>
Pentachlorophenol	625	0.04 mg/L	Composite	
Chlorobenzene	624	0.2 mg/L	Grab	
Chloroform	624	0.2 mg/L	Grab	<b> </b>
Trichloroethylene	624	0.2 mg/L	Grab	ļ
1,2 Dichloroethane	624	0.5 mg/L	Grab	ļ
2,4-Dinitrotoluene	625	0.13 mg/L	Composite	
Nitrobenzene	625	2.0 mg/L	Composite	
Acrylonitrile	603	1.0 mg/L	Grab	
Chlordane	625	0.03 mg/L	Composite	

This table lists the applicable Local Limits for all Permitted Industrial Users. Categorical Industrial Users may have additional limits that apply.

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NO ADDITIONI

SAMPLING REQUIRED

# INSTRUCTIONS NDUSTRIAL WASTEWATER PE IIT APPLICATION SECTION III: FACILITY WASTEWATER INFORMATION

#### PART A. NON-CATEGORICAL INDUSTRIAL FACILITIES

- 1. Each Permitted Industrial User is required to perform self monitoring sampling and analyses to help document compliance with the pretreatment regulations. Provide the requested information even if all of the self monitoring analyses are performed by facility staff.
- 2. Provide the requested information. Most Commercial Laboratories participate in at least one performance evaluation or certification program to help insure and document that the data generated is valid and credible.
- 3.. After comparing the process wastewater data to the discharge limits that are listed in Table 1, check the appropriate box and complete as requested. Describe any additional O & M or installation of pretreatment equipment required to meet the listed discharge limits and attach a proposed compliance schedule. Specify the major events. After approval by the city, a Compliance Order will be put in place. Failure to comply with the approved schedule will subject the facility to enforcement actions.

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### SECTION II' FACILITY WASTEWATER INFO MATION

PA	PART A. NON-CATEGORICAL I	- a DUES	NOT	
1.	Provide name and address of the commercial APP	24 TO KOP	PERS EILL	
	(Laboratory Name)	T A DOES LY TO KOP. INSTEAD; T PART B.	<i>y-</i>	
	(Street Address)		/	/-
•	(City)	/		 (
	(Phone) (I	Fax)		
2.	2. List the Certification Program(s) in which the labora	tory participates:		
3.	Compliance Certification: Compare the sample resu     a.) Is the facility meeting applicable pretreatment st	_		able 1).
	Yes [ ] No [ ]	Don't Know [ ]		
	If Don't Know, then compliance must be evalua	ted after the baseline mo	onitoring is co	ompleted.
	If No, do you require:			
	b.) Additional operation and maintenance (O&M) to	o achieve compliance?	Yes [ ]	No [ ]
	c.) New or additional pretreatment facilities to achi-	eve compliance?	Yes [ ]	No [ ]
	If additional O&M or new or additional pretreatment meet pretreatment standards on a consistent basis, att proposed schedule for completion of the work.			
	d.) I have provided a compliance schedule.		Yes [ ]	No [ ]
/	Describe the compliance schedule of events on a sepa entails and the proposed due dates for each of the task is subject to prior approval by the City.			
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# INSTRUCTIONS: INDUSTRIAL WASTEWATER PERMIT APPLICATION SECTION III: F SILITY WASTEWATER INFORM ION, Continued

#### PART B. CATEGORICAL INDUSTRIAL FACILITIES

- 1. List each regulated process, its production rate (i.e. 1,000 lbs. of product per day), the process wastewater flow rate in gpd, the applicable SIC code, and the pretreatment category. If the exact flow rate is not known for each process, then estimate the amount as best as possible and note how the estimation was determined.
  - Baseline Monitoring Report: As per 40 CFR 403.12, each Categorical Industrial User must submit a Baseline Monitoring Report (BMR). This report should identify the nature and concentrations of all regulated pollutants. In the case of new facilities this report must be submitted 90 days prior to the start of discharge. Estimates may be used but these estimates shall be confirmed through final compliance monitoring and reporting of the facility's effluent. If the effluent samples were taken at one combined point, indicate alongside the regulated process line what process flows are co-mingled at the sampling point. Contact the City's Industrial Source Control Division for guidance on where to take samples and how many samples to take.
- 2. Each Permitted Industrial User is required to perform self monitoring sampling and analyses to help document compliance with the pretreatment regulations. Provide the requested information even if all of the self monitoring analyses are performed by facility staff.
- 3. Provide the requested information. Most Commercial Laboratories participate in at least one performance evaluation or certification program to help insure and document that the data generated are valid and credible.

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### PART B. CATEGORICAL INDUSTRIAL FACILITIES

1. Summarize each regulated process: (report concentrations in mg/L or mass in lbs.).

Regulated Proces	ss Description	Production Ra	te Process Flo	w SIC Code	Pretreatm Categor
Blending	***	N/A	N/A	2865	414 subpa
Melting		. "	t1	11	11
					•
				I Sta	Here
					Here
				a de la companya de l	
Total plant flow:	(In gallons per c	day, gpd) N/A		<del> </del>	
Provide name and	address of the c	commercial testing lab	o(s) who is (are) p	performing ana	lyses:
N/A	poratory Name)		<del> </del>		<del></del>
(Euc	oratory realisty				
(Stre	eet Address)				
(Ci	ty)		(State)		(Zip Code)
(Pho	one)		(Fax)		
			u nacticinates:		
List the Certificati	on Program(s) is	n which the laborator	y participates.		
List the Certificati		n which the laborator			

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# INSTRUCTIONS: INDUSTRIAL WASTEWATER PERMIT APPLICATION SECTION III: F CILITY WASTEWATER INFORM CONTINUED

- 4. As discussed in question #1 of this subsection, a BMR includes sampling and analysis data of the facility's effluent. Daily maximum and average pollutant concentrations from each categorically regulated process must be reported. A report form is included as Attachment D. A minimum of four grab samples for pH, cyanide, phenols, oils & greases, sulfide, and volatile organics must be taken, if applicable to the facility's categorically regulated processes. For all other regulated pollutants, a 24 hour composite sample is required. All such samples must be representative of the facility's daily operations. After comparing the analysis data to the discharge limits listed in the appropriate subpart of 40 CFR and the Local Limits listed in Table 1, check the appropriate box and complete as requested. Describe any additional O & M or installation of pretreatment equipment required to meet the listed discharge limits and attach a proposed compliance schedule. Specify the major events, bench marks, needed to achieve compliance, as well as dates for completion of the events. After approval by the City, the compliance schedule will be in place. Failure to comply with the approved schedule will subject the facility to escalating enforcement actions.
- 5. Total Toxic Organics (TTOs): Facilities who use toxic organics, as listed by EPA in its published categorical pretreatment standards, are required to meet the TTO pretreatment standards. Each facility must initially sample for TTOs to determine compliance. After a facility is found to be in compliance with the TTO standard the Industrial User may adopt either a certification statement or a solvent management plan in lieu of having to periodically sample for toxic organics if these options are allowed under the facility's category. If you do not use toxic organics in your manufacturing process, you may not be required to sample for TTO. Contact the City's Industrial Source Control Division for guidance.

Check the appropriate boxes.

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### SECTION III: F. ILITY WASTEWATER INFORM ION, Continued

4.		mpliance Certification: Compare the sample results against the listed Categorical Standards and se listed in the Local Limits (Table 1).
	a.)	Is the facility meeting applicable pretreatment standards on a consistent basis?
		Yes [ ] No [ ] Don't Know [ ] N/A-No process wastewater discharge.
		If Don't Know, then compliance must be evaluated after the baseline monitoring is completed.
		If No, do you require:
	b.)	Additional operation and maintenance (O&M) to achieve compliance?
		Yes [ ] No [x]
	c.)	New or additional pretreatment facilities to achieve compliance?
		Yes [ ] No [ x]
	pret	dditional O&M or new or additional pretreatment will be required for the facility to meet treatment standards on a consistent basis, attach a description of what is required and a proposed edule for completion of the work.
	d.)	I have provided a compliance schedule.
		Yes [ ] No [ x]
	en	scribe the compliance schedule of events on a separate sheet. Detail what the proposed work tails and the proposed due dates for each of the tasks involved. The proposed compliance nedule is subject to prior approval by the City.
5.	sai Co	tal Toxic Organics (TTOs): Facilities covered by a TTO pretreatment standard must initially mple for the listed TTOs to help determine compliance. Contact the City's Industrial Source ontrol Division for a listing of the TTOs applicable to your industrial category. See also the table Attachment A.
	a.)	We presently use or plan to use toxic organics listed in the categorical pretreatment standards.
		Yes [ ] No [ x] If "Yes" then:
	b.)	A solvent management plan has been developed and is attached.
		Yes [ ] No [ x]
		No," attach a proposed schedule to develop and implement a Solvent Management Plan with due les for each of the tasks involved. The proposed schedule is subject to prior approval by the City.
	c.)	I have provided a proposed schedule to develop and implement a Solvent Management Plan.
		Yes [ ] No [ 與] Page 17 of 19 Rev. 9/14/98

## INSTRUCTIONS INDUSTRIAL WASTEWATER PF 4IT APPLICATION SEC. ON IV: SIGNATURES & CERTIFICATIONS

The <u>Qualified Professional Certification</u> pertains to the actual preparer of this form if different than the Responsible Corporate Official. Said person could be a consultant or professional engineer hired to gather and prepare the required information for this application.

This form shall be signed by a <u>Responsible Corporate Official</u>, as defined in 40 CFR 403.12(1). Said person may be either a general partner, a corporate officer, or by a duly authorized representative who has responsibility for the overall operation of the facility that discharges process wastewater to the City's sewer.

# Photocopy the completed survey form for your records and return the original survey to:

Industrial Source Control Division
City of Portland Environmental Services
Water Pollution Control Laboratory
6543 N. Burlington Avenue
Portland, OR 97203-5452

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#### **SECTION IV: SIGNATURES & CERTIFICATIONS**

#### **Qualified Professional Certification:**

I hereby certify under penalty of law that this information was obtained in accordance with the applicable procedures and requirements as specified in the General Pretreatment Regulations and amendments thereto and the City's sewer use ordinance. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Traci Self	Environmental Manager
Name (print)	Title
Trui I. Lel	9/13/99
Signature	Date

#### Authorized Representative Statement: {40 CFR 403.6(a)(2)(ii)}

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief is true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Amos Kamerer	Plant Manager
Name (print)	Title
1 m	9/10/99
Sanature	Date

### **ATTACHMENT A PRIORITY POLLUTANTS**

#### **Priority Pollutant Information**

1. Indicate by placing an "X" in the appropriate space by each listed chemical whether it is Suspected to be Absent, Known to be Absent, Suspected to be Present, or Known to be Present in your manufacturing or service activity, or generated as a byproduct.

No.	Pollutant of Concern	Known Absent	Suspected Absent	Suspected Present	Known Present	Annual Usage	Loss to Sewer
	and the second s	Absent	Ausent	Tresent	Hesent	(lb./yr.)	(lb./yr.)
1.	ammonia						
2.	asbestos (fibrous)						
3.	cyanide (total)				]		
4.	antimony (total)						
5.	arsenic (total)						
6.	beryllium (total)						
7.	cadmium (total)						
8.	chromium (total)						
9.	copper (total)						
10.	lead (total)						
11.	mercury (total)						
12.	nickel (total)						
13.	selenium (total)						
14.	silver (total)						
15.	thallium (total)						
16.	zinc (total)						
17.	acenaphthene						
18.	acenaphthylene						
19.	acrolein						
20	acrylonitrile						
21.	aldrin						
22.	anthracene						
23.	benzene					1	
24.	benzidine						
25	benzo(a)anthracene						
26.	benzo(a)pyrene						
27.	benzo(b)fluoranthene						
28.	benzo(g,h,i)perylene						
29	benzo(k)fluoranthene						
30.	a-BHC(alpha)						
31.	b-BHC(beta)						
32.	d-BHC(delta)						
33.	G-BHC*(gamma)						
34.	bis(2-chloroethyl)ether						
35.	bis(2-chloroethoxy)methane						
36.	bis(2-chloroisopropyl)ether		_				
37.	bis(chloromethyl)ether						

1 of 3

Revision 9/14/9898

L 00		Υ	ı	r	<u></u>	T	· · · · · · · · · · · · · · · · · · ·
38.	bromodichloromethane			ļ	<u> </u>		
39.	bis(2-ethythexyl)phthalate					ļ	
40.	bromoform					ļ	
41.	bromomethane					ļ	
42.	4-bromophenyl phenylether						
43.	butylbenzyl phthalate						
44.	carbon tetrachloride	ļ					
45.	chlordane	<u>'</u>					
46.	4-chloro-3-ethylphenol						
47.	chlorobenzene					<u> </u>	
48.	chloroethane						
49.	2-chloroethylvinyl ether						
50.	chloroform						
51.	chloromethane						
52.	2-chloronaphthalene						
53.	2-chlorophenol						
54.	4-chlorophenylphenyl ether						
55.	chrysene						
56.	4,4'-DDE						
57.	4,4'- DDD						
58.	4,4'-DDT						
59.	dibenzo(a,h)anthracene			-			
60.	dibromochloromethane						
61.	1,2-dichlorobenzene						
62.	1,3-dichlorobenzene						
63.	1,4-dichlorobenzene		, , , , , , , , , , , , , , , , , , , ,				
64.	3,3-dichlorobenzidine						
65.	dichlorodifluoromethane						
66.	1,1-dichloroethane						
67.	1,2-dichloroethane						
68.	1,1-dichloroethene						
69.	trans-1,2-dichloroethene						
70.	1,4-dichlorophenol						
71.	1,2-dichloropropane						
72.	(cis&trans)1,3-dichloropropene						
73.	dieldrin						
74.	diethyl phthalate						
75.	2,4-dimethylphenol						
76.	dimethyl phthalate						
77.	di-n-butyl phthalate						
78.	di-n-ocytl phthalate				· · · · · ·		
79.	4,6-dinitro-2-methylphenol						
80.	1,4-dinitrophenol						
81.	1,4-dinitrophenol						
82.	2,6-dinitrotoluene						
83.	1,2-diphenythydrazine						
84.	endosulfan t						
85.	endosulfan tt						
86.							
ου.	endosulfan sulfate						l

87.	endrin				<u> </u>		
88.	endrin aldehyde					<del></del>	
89.	ethylbenzene						
90.	fluoranthene	<del>                                     </del>					
91.	fluorene						
92.	heptachlor	<del> </del>					
93.	heptachlor epoxide	<del>                                     </del>				<u> </u>	<del></del>
94.	hexachlorobenzene	<del>                                     </del>		<u> </u>		<u> </u>	
95.	hexachlorobutadiene	<del> </del>				l	<del></del>
96.	hexachlorocyclobentadiene	<del> </del>					
97.	hexachloroethane					<b></b>	
98.	indeno (1,2,3-cd)pyrene				<del> </del>		<u> </u>
99.		<b>_</b>					
	isophorone	<b> </b>	!	<u> </u>			<del> </del>
100.	methylene chloride	<del> </del>		<u> </u>		<del></del>	<del> </del>
101.	naphthalene	<del> </del>	<del> </del>	<del> </del>	{- <del></del>	<del> </del>	<del> </del>
102.	nitrobenzene	<u> </u>				<del></del>	<del> </del>
103.	2-nitrophenol				ļ	<b> </b>	<del> </del>
104.	4-nitrophenol		 				<b></b>
105.	n-nitroso-dimethylamine	<b> </b>		·			<b></b>
106.	n-nitroso-dipropylamine	<b></b> _				ļ	ļ <u></u> -
107.	n-nitroso-diphenylamine	<b> </b>			ļ	<b></b>	<b> </b>
108.	PCB-1016					ļ	ļ
109.	PCB-1221						ļ
110.	PCB-1232	<u> </u>				ļ	
111.	PCB-1242	l					
112.	PCB-1248			l			
113.	PCB-1254						
114.	PCB-1260					<u> </u>	<u> </u>
115.	pentachlorophenol						
116.	phenyl anthracene				<u> </u>		
117.	phenol						
118.	pyrene						
119.	2,3,7,8-tetrachlorodibenzo-p-dioxin						
120.	1,1,2,2-tetrachloroethane						
121.	tetrachloroethene						
122.	toluene						
123.	toxaphene						
124.	1,2,4-trichlorobenzene						
125.	1,1,1-trichloroethane		· · · · · · · · · · · · · · · · · · ·				
126.	1,1,2-trichloroethane					\	
127.	trichloroethene				·		
128.	trichlorofluoromethane						
129.	2,4,6-trichlorophenol						
130.	vinyl chloride					}	

#### ATTACHMENT B PROCESS FLOW DIAGRAM

For each major activity in which wastewater is generated, draw a diagram of the flow of materials and water from start to completed activity, showing all unit processes generating wastewater. Number each unit process having wastewater discharges to the community sewer. Use these numbers when showing this unit process in the building layout in schematic. Use the space below or additional sheets of 8x11 paper. An example is provided on the other side of this sheet. Using this example as a guide, diagram the flow of materials and water from the start of each process to the completed product or activity. Show all unit processes generating wastewater. Indicate the process flow rates in gallons per day (gpd) with numbered steps keyed to building locations.

#### Instructions

#### PROCESS FLOW DIAGRAM

A Separate drawing should be completed for each major business activity.

A line drawing (schematic flow diagram) of each major business activity is to be completed either in the space below or drawn on separate sheet of paper (all sheets should be letter size). Number each process that generates wastewater using the same numbering system as in the building layout or plant site plan shown in the building layout schematic. An example of drawing required is shown below in Figure 1.

To determine your average daily volume and maximum daily volume of wastewater flow, you may have to read water meters, sewer meters, or make estimates of volumes that are not directly measurable.

INFORMATION CHAM

### ATTACHMENT C BUILDING LAYOUT

Draw the location of each building on the premises. Show location of all current or planned water meters, storm drains, numbered unit processes (from process schematic(s)), community sewers and each side sewer connected to the community sewers, automatic sampling equipment (current or planned), location of pretreatment processes, treated flows and untreated flows, name and location of pertinent streets. Use flow schematic to indicate process and process discharge in gpd. Number each side sewer and show possible sampling locations (sampling manhole).

An attached blueprint or drawing of the facilities showing the above items may be substituted for a drawing on this sheet. Use the example on the back side of this sheet as a guide.

INFORMATION ON FILE

THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK - HOLD AT AN ANGLE TO VIEW
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# KOPPERS INDUSTRIES

FAX TRANSMITTAL

7540 N.W. Saint Helens Rd. Portland. Oregon 97210-3663

Phone: (503) 286-3681 Fax: (503) 285-2831 Web Page: www.koppers.com

TO: J. Dietz, T. Self, M. Cilly, B. Maisingen	DATE: 8/28/00
FROM: Amos	TOTAL # OF PAGES: /o
The Attached is Sefl-explanatory	
I have told Bub Wratt, NWN that	we want to
have this resolved by 10/1/00 -	
,	
IF THIS TRANSMITTAL IS IN FRROR PLEASE CALL 503-280	6-3681 FAX # 503-285-2831

#### HAHN AND ASSOCIATES, INC.

**ENVIRONMENTAL CONSULTANTS** 

August 24, 2000

Mr. Eric Blischke Oregon Department of Environmental Quality Voluntary Cleanup and Site Assessment Section 2020 SW 4<sup>th</sup> Avenue Portland, Oregon 97201

HAI Project No. 2708

SUBJECT: Groundwater Quality Data, Above-Ground Storage Tank Support Piling Monitoring, Koppers Industries, Inc. Lease Area, NW Natural-Gasco Facility, 7900 NW St. Helens Road, Portland, Oregon

Dear Mr. Blischke:

On behalf of NW Natural, enclosed please find a summary of groundwater quality data (Tables 1 and 2) as obtained from wells at the Gasco site that monitor groundwater conditions down-gradient from the new above-ground coal tar pitch tank that was constructed by Koppers Industries, Inc. (KII) in 1999 (Figure 1).

As you are aware, monitoring wells MW-14-110, MW-15-50, and MW-15-66; all downgradient of the tank foundation pilings within the Alluvial Sand water-bearing zone (WBZ); are being monitored on a quarterly sampling frequency as per a December 14, 1999 assessment plan<sup>1</sup> that has been implemented such that an evaluation of environmental impacts associated with piling construction for the new coal tar pitch tank may be conducted. Pilings were driven in May 1999, while wells MW-15-50 and MW-15-66 were installed in July 1999, and well MW-14-110 was installed in October 1998.

The primary objective of the monitoring activities has been the acquisition of sufficient data such that the likely source of polynuclear aromatic hydrocarbon (PAH) and aromatic hydrocarbon (particularly benzene) contamination identified at the MW-15-50 well location could be ascertained. Specifically, monitoring activities were designed such that a determination as to whether the impacts identified at MW-15-50: (1) pre-date the installation of tank foundation pilings; (2) are the result of limited piling drag-down of shallow contamination into the Alluvial Sand WBZ; or (3) are the result of the pilings acting as an on-going conduit for the continued migration of shallow contamination into the Alluvial Sand WBZ. The preceding determination is necessary in order to evaluate whether tank installation procedures have exacerbated existing contamination at the site, since KII desires to commence construction of a second tank in this area during 2001.

As provided within the Assessment Plan (HAI 1999), monitoring activities were completed over the course of one year to allow for the identification and evaluation of concentration trends at the wells such that the type/mechanism of the contaminant source currently identified at the MW-15-50 location could be ascertained. With completion of the June 2000 sampling event, one year of groundwater quality data are now available, and an interpretation of trends in contaminant concentrations are provided herein.

434 NW 6th AVENUE, SUITE 203 • PORTLAND, OREGON 97209-3651 503/796-0717 OFFICE • 503/227-2209 FAX

www.hahnasoc.com

<sup>&</sup>lt;sup>1</sup> Hahn and Associates, Inc. (1999), Proposed Assessment Plan, Above-Ground Storage Tank Support Pilings, Koppers Lease Area, Northwest Natural Lease Area, Northwest Natural-Gasco Facility, 7900 NW St. Helens Road, Portland, Oregon (Ede to Blischke), December 14, 1999.

Page 2 of 2 Project No. 2708 August 24, 2000

Figures 2 and 3 provide charts depicting benzene and total PAH concentrations through time at the MW-15-50 well location. As depicted on Figure 2, and as summarized on Table 1, benzene concentrations at the MW-15-50 well location have decreased from a high of 95,100 parts per billion (ppb) in July 1999 to a low of 1,270 ppb in June 2000, while total PAH concentrations have declined from a high of 18,460 ppb to a low of 451 ppb over the same time-frame.

With regard to well MW-15-66, screened just beneath well MW-15-50 at the base of the Alluvial Sand WBZ, samples from this well have consistently indicated a lack of detectable benzene concentrations, while total PAH concentrations have remained low (Tables 1 and 2).

Furthermore, since installation of the tank support pilings in May 1999, no increasing concentrations of PAHs or benzene have been identified at the well MW-14-110 location, screened at the base of the Alluvial Sand WBZ approximately 250 feet down-gradient of the tank support pilings (Tables 1 and 2, Figures 4 and 5).

Under a scenario involving on ongoing source of contamination to the Alluvial Sand WBZ, one would expect stable or increasing concentration trends at the MW-15-50 location, with a strong increasing trend in contaminant concentrations at well MW-15-66. Since trends observed to date indicate a decline in concentrations through time at the MW-15-50 location, and non-detect to low concentrations at MW-15-66, it does not appear that piling installation has resulted in creation of an artificial conduit leading to exacerbation of overall site contamination. Instead, contamination identified within the Alluvial Sand WBZ at the MW-15-50 well location location is likely the result of "one-time" contaminant drag-down during the piling installation. The slug of contamination resulting from the piling construction would not be expected to significantly contribute to the existing site contamination since this slug would attenuate and be masked by an existing plume of greater concentration within the Alluvial Sand WBZ at down-gradient portions of the site.

Based on the findings described herein, it is requested that DEQ remove the moratorium on further tank construction activities at the site.

If there are any comments or questions, please contact the undersigned.

Sincerely,

Robert Ede

Sr. Project Manager

c: Ms. Sandra Hart, NW Natural

Mr. Bob Wyatt, NW Natural

Mr. Amos Kamerer, Koppers Industries, Inc.

Mr. Richard Bach, Stoel Rives, LLP

Mr. Steve Cappellino, Anchor Environmental LLC

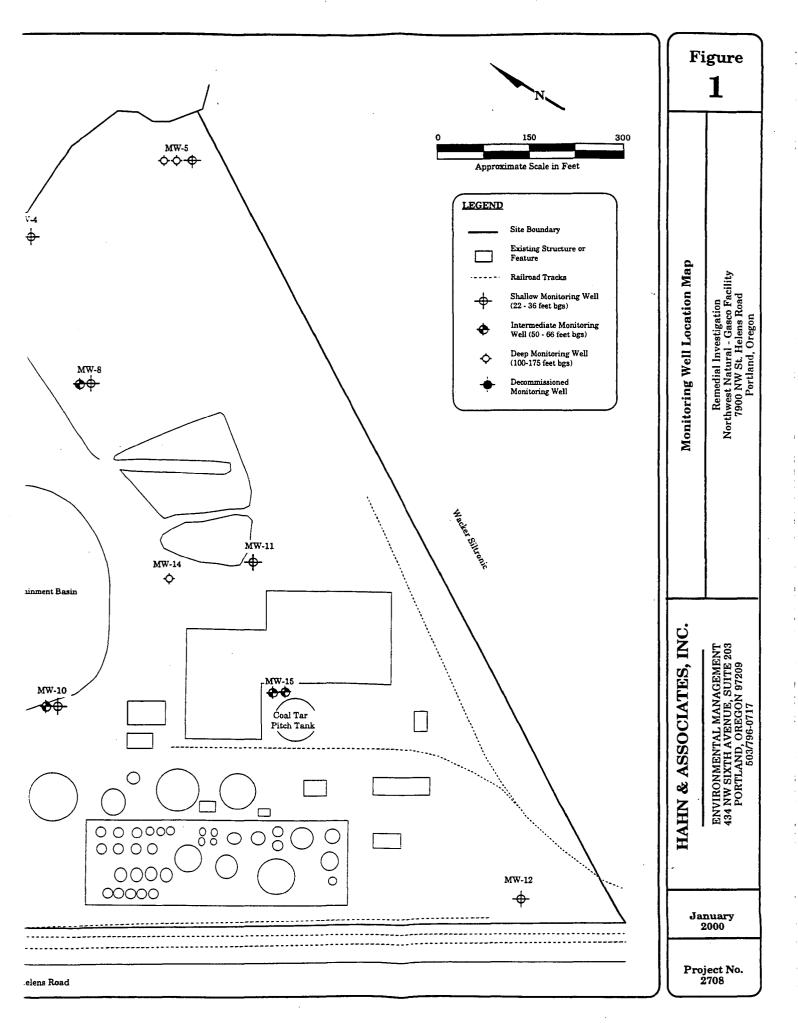


Table 1 - Summary of Historical Analytical Results for Groundwater Samples: BTEX. Total PAHs, and Cvanide (November 1998 to Present)

Remedial Investigation

Northwest Natural - Gasco Facility

Portland, Oregon

Project No. 2708

Well	HAI	Chain of	Sample	Analytical Results									
Number	Sample	Custody	Date	sala sa aa aa'		EPA Method 802	Out a serie da	r in karasa	EPA Metho	d 8270 SIM	EPA 9010	EPA 901	
(3)	Number!	Number	balik sisind			ug/l (ppb)				(ppb)	mg/l (ppm)	mg/l (ppm)	
				Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	Carcinogenic PAHs	Total PAHs	Total Cyanide	Amenable Cyanide	
MW-14-110	981116-MW14-110-06	2708-W037	16-Nov-98	3.2	ND>0.5	ND>0.5	ND>1.5	3.2	ND	ND			
	990216-MW14-110-005	2708-W042	16-Feb-99	12.7	ND>0.5	0.6	ND>1.5	13.3	ND	0.11	0.04	ND>0.02	
	990512-MW14-110-09	2708-W045	12-May-99	22.1	ND>0.5	1.88	2.4	26.4	ND	0.28	0.03	0.03	
ŀ	990823-MW14-110-06	2708-W049	23-Aug-99	45.6	0.75	1.85	2.09	50.3	ND	0.41		ND>0.02	
	991027-MW14-110-09	2708-W055	27-Oct-99	28.6	0.81	1.45	ND>1.5	30.9	ND	0.26	0.04	ND>0.02	
i	991027-MW14-110-10	2708-W055	27-Oct-99	29.7	0.57	1.52	ND>1.5	31.8	ND	0.27	0.03	ND>0.02	
1	000329-MW14-110-109	2708-W060	29-Mar-00	7.84	ND>0.5	0.73	ND>1.5	8.6	ND	0.42	0.03	ND>0.02	
	000329-MW14-110-110	2708-W060	29-Mar-00	8.9	0.5	0.83	ND>1.5	10.2	ND	0.42	0.03	ND>0.02	
	000615-MW14-110-102	2708-W064	15-Jun-00	4.85	ND>0.5	ND>0.5	ND>1.5	4.9	ND	0.2		ND>0.02	
MW-15-50	990728-MW15-50-04	2708-W048	28-Jul-99	95,100.	863.	223.	2,420.	98,606.	ND	18,460.	ND>0.020	ND>0.02	
	991029-MW15-50-25	2708-W057	29-Oct-99	8,910.	134.	59.2	500.	9,603.2	ND	762.	0.15	ND>0.02	
	000403-MW15-50-125	2708-W062	3-Apr-00	44,800.	620.	222.	2,300.	47,942.	3.31	5,611.	-0.07	ND>0.02	
	000615-MW15-50-105	2708-W064	15-Jun-00	1,490.	14.3	6.62	42.	1,552.9	268.	475.		ND>0.02	
	000615-MW15-50-106	2708-W064	15-Jun-00	1,270,	10.	5,16	28.4	1,313.6	254;	451.		ND>0.02	
MW-15-66	990728-MW15-66-03	2708-W048	28-Jul-99	3.61	ND>0.5	ND>0.5	ND>1.5	3.6	0.83	3.	ND>0.020	ND>0.02	
	990823-MW15-66-04	2708-W050	23-Aug-99	0.72	ND>0.5	ND>0.5	ND>1.5	0.7		ļ		1 1	
	991026-MW15-66-07	2708-W054	26-Oct-99	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	ND	ND	ND>0.020	ND>0.02	
1	000329-MW15-66-108	2708-W060	29-Mar-00	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	3.91	7.	ND>0.02	ND>0.02	
	000615-MW15-50-104	2708-W064	15-Jun-00	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	12.17	22.		ND>0.02	
EPA Maximum Cor	ntaminant Levels (MCLs) for	Drinking Water	اعر المحادية لأراده	5,	1.000	700,	10,000	#	#	#	0.2	#1246.3 625	
	iminary Remediation Goals (			0.41	720	1,300	1,400.	#	#	#	#1455665	0.73	
DEQ Ambient Water	er Quality Criteria (AWQC) fo	r Surface Water <sup>2</sup>	ophilian planti	40.³	424.3	1,400.3	# 3245	# Danker	0.031 4	# 45000000000	0.0052 4	#	

Note:

BTEX = benzene, toluene, ethylbenzene, and xylenes DEQ = Oregon Department of Environmental Quality EPA = U.S. Environmental Protection Agency

mg/l = milligrams/liter
ND = not detected above detection limit indicated PAHs = polynuclear aromatic hydrocarbons

ppb = parts per billion ppm = parts per million ug/l = micrograms per liter # = Reference Level not established
Bold and shaded = Detected above Lowest Identified Reference Level

<sup>1 =</sup> Sample number prefix: 27092 = Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41) based on Fresh Acute, Fresh Chronic (Aquatic Life Protection) and Fish Consumption (Human Health Protection)
3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC
4 = Reference Level based on Human Fish Consumption Criteria of AWQC

Project No. 2708

PAHs by EPA	Method 8270 (SIM)			•							An	alytical Resi ug/l (ppb)	ults .						:		
						Car	cinogenic P	AHs						Non-c	arcinogenic	PAHs					
Well Number	Sample Numben	Chain of Custody Number	Sample Date	Benzo (8) andrracene	Berzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Сиузапа	Olberzo (ah) anthracene	indeno (1,2,3-cd) pyrene	Acenaphthene	Acenaphtrylene	Алтивовпе	Berzo (ghi) peryena	Phoraritene	Fluorene	Naphtralene	Phenanthrene	елем/	Total Cardnogenic PAHs	Total PAHa
MW-14-110	981116-MW14-110-06	2708-W037	16-Nov-98	ND.	ND.	ND"	ND "	ND *	ND.	ND *	ND *		ND *	ND °	ND*	ND *	ND"	ND *	ND*	ND	ND
	990216-MW14-110-005	2708-W042	16-Feb-99					ND 4	1	ND *	0.11		ND *		_		ND.	ND *	ND *	ND	0.1
	990512-MW14-110-09	2708-W045	12-May-99	ND *				ND *		ND *	0.14		ND "			ND"		ND *	ND *	ND	0.3
	990823-MW14-110-06	2708-W049	23-Aug-99					ND "	ND "	ND *	0.29		ND.	1	_	ND *		ND *	ND *	ND	0.4
	991027-MW14-110-09	2708-W055	27-Oct-99		1			ND*		ND "	0.26		ND *	-			ND"	ND"	ND"	ND	0.3
	991027-MW14-110-09	2708-W055	27-Oct-99					ND*		ND *	0.26		ND *		1		ND.	ND.	ND *	ND	0.3
ž.	000329-MW14-110-109	2708-W060	29-Mar-00	l .				ND *	l	ND *			ND "				1		ND *	ND	0.4
1		2708-W060	29-Mar-00					ND *	1	ND.	0.42		ND.	ND"	ND*	ND*	1		ND*	ND	0.4
	000615-MW14-110-102	2708-W064	15-Jun-00					ND.	ND *	ND.	0.18		ND *	ND"	ND *	ND "	ND*			ND	0.2
MW-15-50	990728-MW15-50-04	2708-W048		ND <sup>4</sup>				ND 4	ND <sup>4</sup>	ND <sup>d</sup>	50.	1 0,0.0.	ND 4	ND <sup>d</sup>	ND <sup>d</sup>	83.	9,700.	1	ND <sup>d</sup>	ND	18,460.
	991029-MW15-50-25	2708-W057	29-Oct-99		Contractors			ND*			ND.		l	ND.	ND*	ND"	716		ND*	ND	782.
i	000403-MW15-50-125	2708-W062	3-Apr-00	0.79	0.51	0.49	0.55	l	ND "	0.24	22.	41.6	2.91	0.25	6.01	23.6	5,480.	25.9	5.16	3.31	5,611.
	000615-MW15-50-105	2708-W064	15-Jun-00	43.6	45.5	38.5	57.1	40.5	8.95	33.5	2.91	0.59	4.11	41.8	69.7	1.66	1.23	25.	60.1	267.65	475.
	000815-MW15-50-108	2708-W064	15-Jun-00	40.	44.1	36.3	53.5	38.3	8.87	32.6	2.96	0.77	4.1	40.2	65.2	1,71	1.23	23.8	57.3	253.67	451.
MW-15-66	990728-MW15-66-03	2708-W048	28-Jul-99	0.15	0.26	ND *	0.16	0	ND.	0.11 ND*	0.11		ND.	0.14	0.3	ND.	0.57	0.17	0.34	0.83	2.5
	991026-MW15-66-07	2708-W054	26-Oct-99						ND"	''-			ND"	ND"	ND"	ND"	ND"	ND"	ND"		ND
	000329-MW15-66-108 000615-MW15-50-104	2708-W060 2708-W064	29-Mar-00 15-Jun-00	0.57 1.93	0.59 1,96	0.6 1.61	0.77 2.64	0.67 1.91	0.18	0.53 1.55		ND *	0.11 0.39	0.68 2.04	0.96 3.32	ND.	ND.	0.33 1.07	0.96	3.91 12.17	6.9
		10 1 2 2			a 1.90	a		1.91	0.57	1.55	0.14		0.39	2.04	3.32			1.07	2.92		22.1
	Contaminant Levels (MCLs) Proliminary Remedial Goals			0.092	0.092	0.92	0.0092	0.7	0.0092	0.092	370.	#	1,800.	#	1.500	240	62	# 12 S	400	#11111111111111	#
	Preummary Remedial Goals Water Quality Criteria (AWQ)			4 0.092	3.092	0.92	U.0092	9.2	0.0092	U.092	520.3	#	1,500.	#	54. <sup>4</sup>	240.	620.3	#	180.	0.031	#

Note:

Koppers003855

# = Reference Level not established EPA = U.S. Environmental Protection Agency ND = not detected above detection limit indicated
ODEQ = Oregon Department of Environmental Quality PAHs = polynuclear aromatic hydrocarbons ppb = parts per billion

ug/l = micrograms per liter
Bold and shaded = Detected above lowest identified Reference Level

a = detection limit is 0.1 ug/l (ppb) b = detection limit is 1. ug/l (ppb) c = detection limit is 2. ug/l (ppb) d = detection limit is 10. ug/l (ppb) e = detection limit is 20. ug/l (ppb)

1 = Sample number prefix: 2708-

1 = Sample furniser preix, 2705-2 = Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41) based on Fresh Acute, Fresh Chronic (Aquatic Life Protection) and Fish Consumption Only (Human Health Protection) 3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC 4 = Reference Level based on Human Fish Consumption Criteria of AWQC

Figure 2
Benzene Concentration through Time
Monitoring Well MW-15-50
NW Natural - Gasco Facility

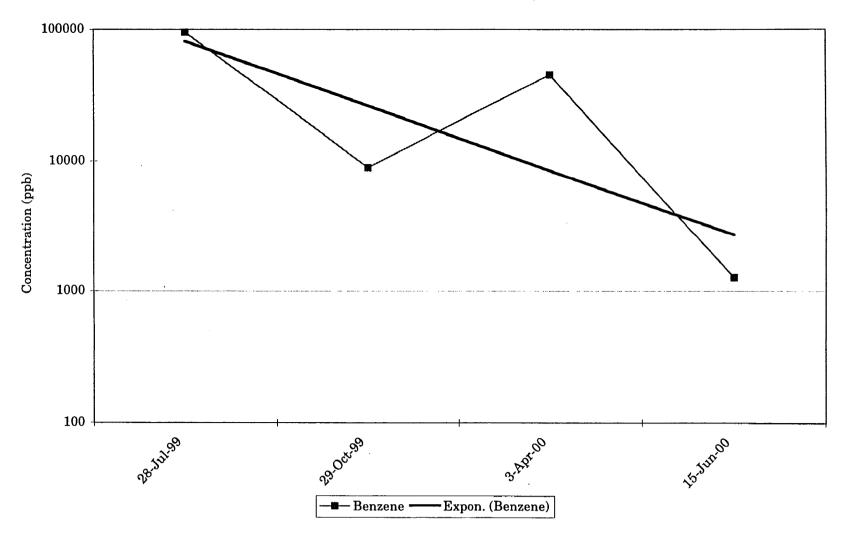
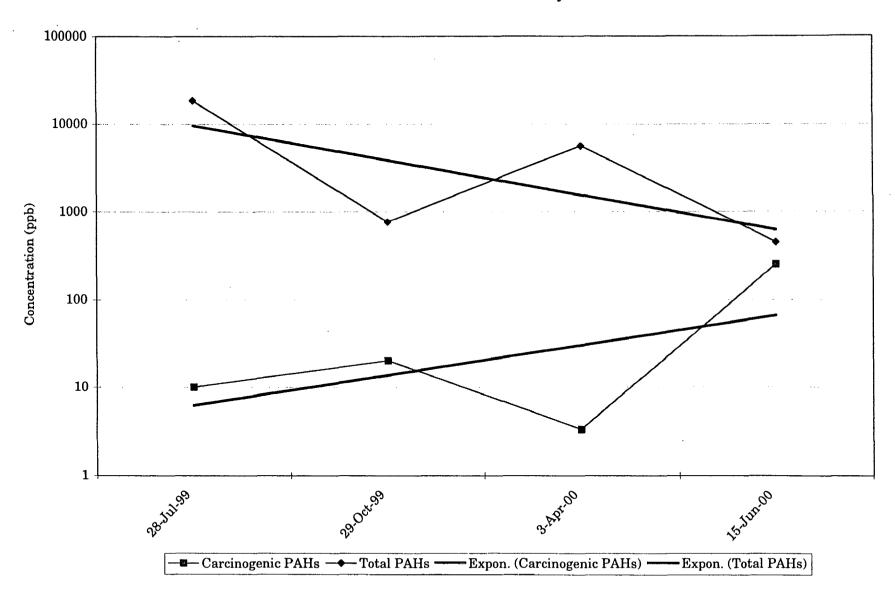
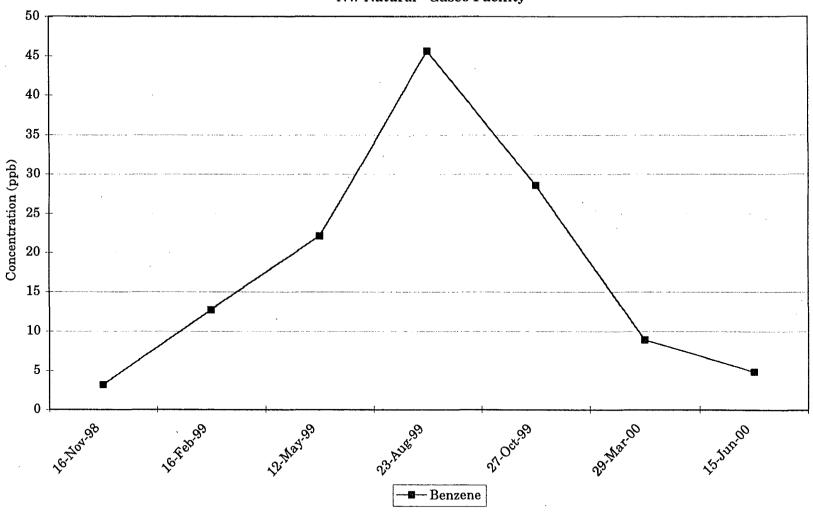


Figure 3
Total PAH Concentration through Time
Monitoring Well MW-15-50
NW Natural - Gasco Facility



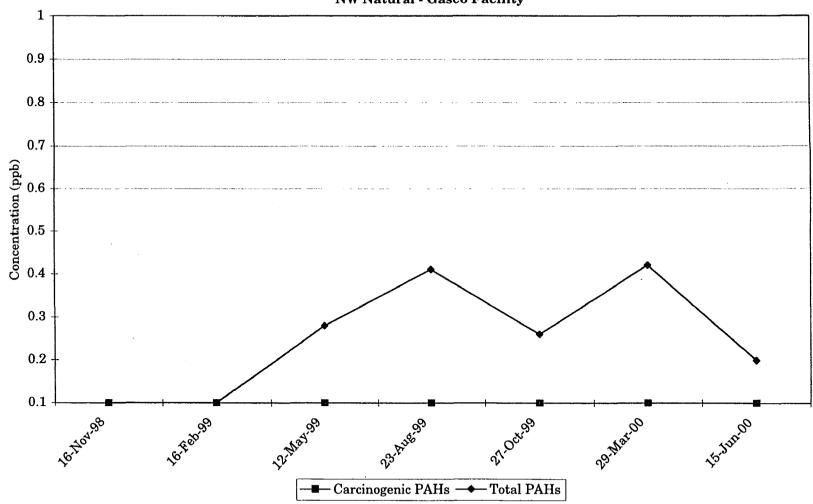
Updated: 8/17/00 RBE File: 2708 GW conc graphs

Figure 4
Benzene Concentation through Time
Monitoring Well MW-14-110
NW Natural - Gasco Facility



Updated: 8/17/00; RBE File: 2708 GW conc graphs

Figure 5
Total PAH Concentration through Time
Monitoring Well MW-14-110
NW Natural - Gasco Facility



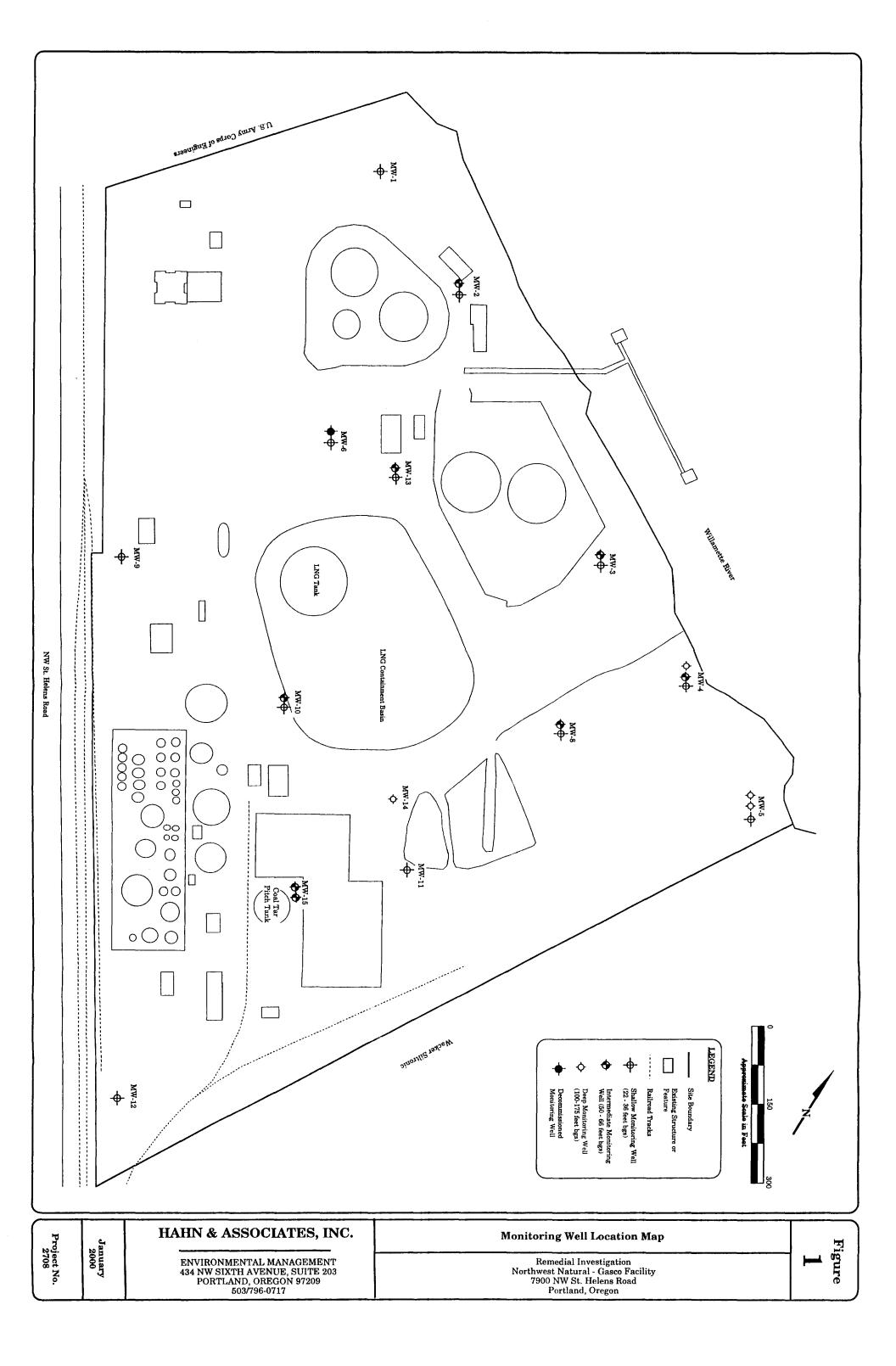
Updated: 8/17/00: RBE File: 2708 GW conc graphs

# RECEIVED

AUG 2 8 2000

KOPPERS INDS, INC. PORTLAND OR

Konnersonsons



Date: 8/8/00 4:05 PM Sender: Amos Kamerer

To: Jim Dietz

cc: Traci Self; Mark Cilley; BILL MEISINGER

Priority: Normal Subject: ODEQ

Jim,

During Traci's and John's visit today, we ran into Bob Wyatt, NWN out back at their treatment

tanks, so it afforded Traci the opportunity to meet him, after having had a couple of prior

telephone conversations with him; which was good.

Bob advised that with regard to our 2nd tank issue, that he will be sending a letter in the next

few days to Eric, ODEQ outlining the 1 years worth of data on the new test wells and what NWN/Hahn thoughts are on the matter. Tentatively, he will try to set up a meeting with Eric,

here at the terminal, the first week of September, to review all of the data and to see what

ODEQ's thought's are on the matter. Bob try to set a specific day and time with Eric, ASAP,

so that Traci can plan to attend.

Bob sees this as something that we all know needs to, and will be done, we just need to have ODEQ as a part of the process. I personally think, that ODEQ will want us to add yet another

test well, some where down gradient of the 2nd tank. Time will tell!

**Amos** 

# KOPPERS INDUSTRIES

**FAX TRANSMITTAL** 

7540 N.W. Saint Helens Rd. Portland, Oregon 97210-3663 Phone: (503) 286-3681

Fax: (503) 285-2831 Web Page: www.koppers.com

TO: V. Dietz, T. Self, M. Cilley B. Mcsslyger DATE: 9/1/00

The Attached is self explanatory—

Thatked with Bob Wyatt, NWN /Assureck. He stillhad

Not Meet with Exic/ODEQ, but he had Addressed with

Base ONE time table. Bob thought he world get with

Base IN the Next few weeks, I keil take with

him Again Next week it I do not here from Him

IF THIS TRANSMITTAL IS IN ERROR, PLEASE CALL 503-286-3681 FAX # 503-285-2831

#### HAHN AND ASSOCIATES, INC.

**ENVIRONMENTAL CONSULTANTS** 

July 31, 2000

Mr. Amos Kamerer Koppers Industries, Inc. 7540 NW St. Helens Road Portland, Oregon 97210-3663

HAI Project #2708

SUBJECT: Groundwater Quality Data, Above-Ground Storage Tank Support Piling Monitoring, Koppers Industries, Inc. Lease Area, NW Natural-Gasco Facility, 7900 NW St. Helens Road, Portland, Oregon

Dear Mr. Kamerer:

On behalf of NW Natural, enclosed please find a summary of available groundwater quality data (Tables 1, 2, and 3) as obtained from wells at the Gasco site that monitor groundwater conditions down-gradient from the new coal tar pitch above-ground tank that was constructed at Koppers Industries, Inc. (Figure 1).

As you are aware, monitoring wells MW-15-50, MW-15-66, and MW-14-110 (all downgradient of the tank foundation pilings) are being monitored on a quarterly sampling frequency as per a December 14, 1999 assessment plan<sup>1</sup> that has been implemented such that an evaluation of environmental impacts associated with piling construction for the new coal tar pitch tank may be completed (pilings were driven in May 1999).

As per the assessment plan, with completion of the June 2000 sampling event, water quality trends at the referenced wells will be evaluated by HAI, with findings summarized and provided to the Oregon Department of Environmental Quality (ODEQ) within the Second Quarter 2000 Remedial Investigation Progress Report for the Gasco site.

If there are any comments or questions, please contact either the undersigned.

Sincerely

Robert Ede

Sr. Project Manager

Kba Ele

c: Mr. Bob Wyatt, NW Natural

Mr. Richard Bach, Stoel Rives, LLP

Mr. Steve Cappellino, Anchor Environmental LLC

<sup>&</sup>lt;sup>1</sup> Hahn and Associates, Inc. (1999), Proposed Assessment Plan, Above-Ground Storage Tank Support Pilings, Koppers Lease Area, Northwest Natural Lease Area, Northwest Natural-Gasco Facility, 7900 NW St. Helens Road, Portland, Oregon (Ede to Blischke, December 14, 1999).

Table 1b - Summary of Analytical Results for Groundwater Samples: June 2000 PAHs by EPA Method 8270

Remedial Investigation Northwest Natural - Gasco Facility Portland, Oregon

Project No. 2708

PAHs by EPA	Method 8270 (SIM)						*.	No.						al Results (ppb)	***	v.			Š. J. J.			
1000	• •			2.5%	- 10		Ċa	rcinogenic P	AHs	hyani, Medigi	<b>%</b>	41 J. 41		Story S	Non-car	rcinogenic	PÁHs	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, 1911	- 7,54 i. =1.	100000000000000000000000000000000000000	
Well Number	Sample Number •		Chain of Custody Number	Sample Date	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Вепzo (а) ругепе	Chrysene	Dibenzo (ah) anthracene	Indeno (1,2,3-cd) pyrene	Acenaphthene	Acenaphihylene	Anthracene	Beitzó (ghl) perylene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Total Carchingenic PAHs	Toțai PAHs
MW-14-110	000615-MW14-110	102 2708	-W064	15-Jun-00	ND *	ND .	ND *	ND *	ND "	ND *	ND *	0.18	ND *	ND *	ND NI	D.	ND "	ND *	ND *	ND *	ND	0.2
	000615-MW15-50-					45.5	38.5	57.1	40.5	8.95	33.5	2.91	0.59	4.11	41.8	69.7	1.66	1.23	25.	60.1	267,65	474.75
Duplicate	000615-MW15-50-	106 2708	-W064	15-Jun-00	40.	44.1	36.3	53.5	38.3	_8.87	32,6	2.96	0.77	4.1	40.2	65.2	1.71	1.23	23.8	57.3	253.67	450.94
MW-15-66	000615-MW15-50-	104 2708	-W064	15-Jun-00	1.93	1.96	1.61	2.64	1.91	0.57	1.55	0.14	ND *	0.39	2.04	3.32	ND *	ND *	1.07	2.92	12.17	22.05
	Contaminant Levels (N				#	#	#	2.	#	#	#	#	#	# :=:	# #		#	#	#	#	#	#
EPA Region 9 F Tap Water (10/9	Preliminary Remedial ( 99)	oals (PRGs)	for		0.092	0.092	0.92	0.0092	9.2	0.0092	0.092	370.	#	1,800.	#	1,500.	240.	6.2	#	180.	#	#
	Vater Quality Criteria (A				#	#	#	#	# 100	# (2000)	#	520. <sup>3</sup>	#	#	#	.54. <sup>4</sup>	# .	620. ³	#	#	0.031 4	#

ND = not detected above detection limit indicated

PAHs = polynuclear aromatic hydrocarbons

ppb = parts per billion ug/l = micrograms per liter

Bold and shaded = Detected above Reference Level

# = Reference Level not established

a = detection limit is 0.1 ug/l (ppb)

<sup>1 =</sup> Sample number prefix: 2708-

<sup>2 =</sup> Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41)

<sup>3 =</sup> Reference Level based on Aquatic Fresh Chronic Criteria of AWQC 4 ≈ Reference Level based on Human Fish Consumption Criteria of AWQC

### Table 1a - Summary of Analytical Results for Groundwater Samples June 2000 Sampling Event

Remedial Investigation Northwest Natural - Gasco Facility Portland, Oregon

Project No. 2708

Well Number	HAI Sample Number 1	Chain of Custody	Sample Date							Ana	lytical Results				e e e e e e e e e e e e e e e e e e e			
		Number				PA Method 80	20		EPA Metho	d 8270 SIM (ppb)	EPA 335 Series mg/l (ppm)	EPA Method 901 mg/l (ppm)		Total (U	nfiltered) Meta	als by EPA Me (ppm)	thod 6010	
				Велгеле	Toluene	Ethyl benzene	Xylenes	Total BTEX	Carcinogenic PAHs	Total PAHs	Total Cvanide	Amenable Cvanide	Arsenic	Chromium	Copper	Lead	Nickel	Zinc
MW-14-110	000615-MW14-110-102	2708-W064	15-Jun-00	4.85	ND>0.5	ND>0.5	ND>1.5	4.9	ND	0.2		ND>0.02	0.0136	ND>0.005	ND>0.005	ND>0.005	ND>0.005	ND>0.005
MW-15-50	000615-MW15-50-105	2708-W064	15-Jun-00	1,490.	14.3	6.62	42.	1,552.9	268.	475.		ND>0.02	ND>0.005	0.006	ND>0.005	ND>0.005	0.0064	0.0359
Duplicate	000615-MW15-50-106	2708-W064	15-Jun-00	1,270.	10.	5.16	28.4	1,313.6	254.	451.		ND>0.02	ND>0.005	ND>0.005	ND>0.005	ND>0.005	ND>0.005	0.0388
MW-15-66	000615-MW15-50-104	2708-W064	15-Jun-00	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	12.17	22.		ND>0.02	0.0054	ND>0.005	ND>0.005	ND>0.005	ND>0.005	0.0214
L	Contaminant Levels (MCLs)		ater	5.	1,000.	700.	10,000.	#	#	#	0.2	#	0.05	0.1	1.	: 0.015	0.1	5.
EPA Region 9 F Tap Water (10/	Preliminary Remediation Go	als (PRGs) for		0.41	720.	1,300.	1,400.	#	#	#	#	0.73	0.00005	0.11	1.4	#	0.73	11.
DEQ Ambient V	Vater Quality Criteria (AWQ	C) for Surface V	Vater 2	40. 3	424.3	1,400.3	#	#	0.031 4	#	0.0052 4	#	0.0000174	0.011 3	0.012 3	0.0032 3	0.14	0.11 3

BTEX = benzene, toluene, ethylbenzene, and xylenes EPA = U.S. Environmental Protection Agency mg/l = milligrams/liter

ND = not detected above detection limit indicated PAHs = polynuclear aromatic hydrocarbons ppb = parts per billion

ppm = parts per million ug/l = micrograms per liter # = Reference Level not established Bold and shaded = Detected above Reference Level

1 = Sample number prefix: 2708-

2 = Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41) based on Fresh Acute, Fresh Chronic (Aquatic Life Protection) and Fish Consumption Only (Human Health Protection) 3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC 4 = Reference Level based on Human Fish Consumption Criteria of AWQC

Table 3a - Summary of Historical Analytical Results for Groundwater Samples: BTEX. Total PAHs. Total Phenols, and Cvanide (November 1998 to Present)

Remedial Investigation

Northwest Natural - Gasco Facility

Portland, Oregon

Project No. 2708

Well	HAI	Chain of	Sample	Analytical Results									
Number	Sample v	Custody	Date		desire a com	EPA Method 802	0	Y 2 Marines	EPA Metho	d 8270 SIM	EPA 9010	EPA 901	EPA 8270
네트 1대[편]	Number!	Number			<u> Dalay yara</u>	ug/l (ppb)				(ppb)	mg/l (ppm)	mg/l (ppm)	ug/l (ppb)
				Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	Carcinogenic PAHs	Total PAHs	Total Cyanide	Amenable Cyanide	Total Phenois
MW-14-110	981116-MW14-110-06	2708-W037	16-Nov-98	3.2	ND>0.5	ND>0.5	ND>1.5	3.2	ND	ND	0.05		
	990216-MW14-110-005	2708-W042	16-Feb-99	12.7	ND>0.5	0.6	ND>1.5	13.3	ND	0.11	0.04	ND>0.02	
	990512-MW14-110-09	2708-W045	12-May-99	22.1	ND>0.5	1.88	2.4	26.4	ND	0.28	0.03	0.03	
	990823-MW14-110-06	2708-W049	23-Aug-99	45.6	0.75	1.85	2.09	50.3	ND	0.41	0.05	ND>0.02	
	991027-MW14-110-09	2708-W055	27-Oct-99	28.6	0.81	1.45	ND>1.5	30.9	ND	0.26	0.04	ND>0.02	
	991027-MW14-110-10	2708-W055	27-Oct-99	29.7	0.57	1.52	ND>1.5	31.8	ND	0.27	0.03	ND>0.02	
	000329-MW14-110-109	2708-W060	29-Mar-00	7.84	ND>0.5	0.73	ND>1.5	8.6	ND	0.42	0.03	ND>0.02	
	000329-MW14-110-110	2708-W060	29-Mar-00	8.9	0.5	0.83	ND>1.5	10.2	ND	0.42	0.03	ND>0.02	
	000615-MW14-110-102	2708-W064	15-Jun-00	4.85	ND>0.5	ND>0.5	ND>1.5	4.9	ND	0.2		ND>0.02	
MW-15-50	990728-MW15-50-04	2708-W048	28-Jul-99	95,100.	863.	223.	2,420.	98,606.	ND	18,460.	ND>0.020	ND>0.02	
	991029-MW15-50-25	2708-W057	29-Oct-99	8,910.	134.	59.2	500.	9,603.2	ND	762.	0.15	ND>0.02	
	000403-MW15-50-125	2708-W062	3-Apr-00	44,800.	620.	222.	2,300.	47,942.	3.31	5,611.	0.07	ND>0.02	
	000615-MW15-50-105	2708-W064	15-Jun-00	1,490.	14.3	6,62	42.	1,552.9	268.	475.		ND>0.02	
	000615-MW15-50-106	2708-W064	15-Jun-00	1,270.	10.	5.16	28.4	1,313.6	254.	451		ND>0.02	•
MW-15-66	990728-MW15-66-03	2708-W048	28-Jul-99	3.61	ND>0.5	ND>0.5	ND>1.5	3.6	0.83	3.	ND>0.020	ND>0.02	
	990823-MW15-66-04	2708-W050	23-Aug-99	0.72	ND>0.5	ND>0.5	ND>1.5	0.7					
	991026-MW15-66-07	2708-W054	26-Oct-99	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	ND	ND	ND>0.020	ND>0.02	
	000329-MW15-66-108	2708-W060	29-Mar-00	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	3.91	7.	ND>0,02	ND>0.02	
	000615-MW15-50-104	2708-1/064	15-Jun-00	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	12.17	22.	<u> Li.</u>	ND>0.02	<u> </u>
EPA Maximum Co	ntaminant Levels (MCLs) for D	Drinking Water		* 2000 <b>5</b>	1,000,	700.	10,000	# 44 1 5 1 4 4 4 4	# 3.00	#	0.2	#	# cessions of the
EPA Region 9 Pre	liminary Remediation Goals (F	RGs) for Tap Wa	ter (10/99)	0.41	720.	1,300	1,400,	#	#	#	#	0.73	#
DEQ Ambient Wat	er Quality Criteria (AWQC) for	Surface Water <sup>2</sup>		40.3	424.3	1,400.3	# 200	#	0.031	#	0.0052 4		#

Note:

BTEX = benzene, toluene, ethylbenzene, and xylenes DEQ = Oregon Department of Environmental Quality EPA = U.S. Environmental Protection Agency

mg/l = milligrams/liter
ND = not detected above detection limit indicated PAHs = polynuclear aromatic hydrocarbons

ppb = parts per billion ppm = parts per million ug/l = micrograms per liter # = Reference Level not established
Bold and shaded = Detected above Lowest Identified Reference Level

<sup>1 =</sup> Sample number prefix: 27082 = Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41) based on Fresh Acute, Fresh Chronic (Aquatic Life Protection) and Fish Consumption (Human Health Protection)

<sup>3 =</sup> Reference Level based on Aquatic Fresh Chronic Criteria of AWQC
4 = Reference Level based on Human Fish Consumption Criteria of AWQC

Table 3b - Summary of Historical Analytical Results for Groundwater Samples: PAHs by EPA Method 8270 (November 1998 to Present)

Remedial Investigation Northwest Natural - Gasco Facility

Portland, Oregon Project No. 2708

Portland, Ore	gon																			riojec	CI NO. 2708
PAHs by EP/	A Method 8270 (SIM)										An	ilytical Resi ug/l (ppb)	ults								N. 3
		ž				Car	cinogénic P/	VHs	2	2				Non-c	arcinogenic	PAHs				•	
Weil Number	Sample Numbers	Chain of Custody Numb	Sample Data	Berzo (8) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrane	Chrysene	Dibenzo (ah) anthracer	Indeno (1,2,3-cd) pyren	Acenaphthene	Acenaphthylene	Anthracene	Benzo (ghl) perylene	Fluoranthene	Fluorene	Naphthelene	Phenanthrene	Pyrene	Total Cardinoganic PA	Total PAHs
MW-14-110	981116-MW14-110-06	2708-W037	16-Nov-98	ND"	ND *	ND *	ND "	ND "	ND *	ND*	ND *	ND"	ND *	ND •	ND *	ND "	ND "	ND *	ND *	ND	ND
	990216-MW14-110-005	2708-W042	16-Feb-99	ND"	ND *	ND*	ND "	ND "	ND *	ND *	0.11	ND *	ND *	ND*	ND*	ND *	ND"	ND*	ND*	ND	0.1
	990512-MW14-110-09	2708-W045	12-May-99	ND *	ND*	ND*	ND "	ND *	ND *	ND *	0.14	ND *	ND *	ND "	ND"	ND *	0.14	ND"	ND*	ND D	0.3
	990823-MW14-110-08	2708-W049	23-Aug-99	ND.	ND *	ND *		ND *	ND *	ND *	0.29	ND *	ND*	ND"		ND*	. 0.12	ND*	ND*	ND	0.4
	991027-MW14-110-09	2708-W055	27-Oct-99	ND"	ND*	ND *	ND *	ND *	ND *	ND *	0.26	ND*	ND *	ND"	ND.	ND*	ND.	ND *	ND*	ND	0.3
1	991027-MW14-110-09	2708-W055	27-Oct-99	ND.	ND*	ND *			ND *	ND *	0.26	ND.	ND *	ND .	ND*	ND *	ND "	ND *	ND*	ND	0.3
	000329-MW14-110-109	2708-W060	29-Mar-00	ND *	ND"	ND*			ND.	ND.	0.42	1	ND.	ND*	ND.	ND.	ND.	ND*	ND.	ND	0.4
1	000329-MW14-110-110	2708-W060	29-Mar-00	ND "	ND "	ND *		ND *	ND *	ND *	0.42	ND *	ND *	ND *	ND.	ND.	ND.	ND *	ND*	ND	0.4
	000615-MW14-110-102	2708-W064	15-Jun-00		ND"	ND *			ND *	ND "	0.18	ND*	ND *	ND *	ND *	ND "	ND *	ND *	ND.	ND	0.2
MW-15-50	990728-MW15-50-04	2708-W048	28-Jul-99	ND <sup>4</sup>	ND <sup>4</sup>	ND <sup>6</sup>			ND <sup>a</sup>	ND <sup>4</sup>	50.	8,510.	ND <sup>d</sup>	ND <sup>d</sup>	ND <sup>4</sup>	83.	9,700.	117.	ND <sup>a</sup>	ND	18,460.
	991029-MW15-50-25	2708-W057	29-Oct-99	ND.	ND.	ND.	ND*		ND"	ND*	ND*	20.	ND"	ND*	ND*	ND*	716.	26.	ND*	ND .	762.
	000403-MW15-50-125	2708-W062	3-Apr-00	0.79	0.51	0.49	0.55	0.73	ND'	0.24	22.	41.6	2.91	0.25	6.01	23.6	5,480.	25.9	5.16	3.31	5,811.
	000615-MW15-50-105	2708-W064	15-Jun-00	43.6	45.5	38.5	57.1	40.5	8.95	33.5	2.91	0.59	4.11	41.8	69.7	1.66	1.23	25.	60.1	267.65	475.
	000615-MW15-50-106	2708-W064	15-Jun-00	40	44.1	38.3	53.5	38.3	8.87	32.6	2.96	0.77	4.1	40.2	65.2	1.71	1.23	23.8	57.3	253.67	451.
MW-15-68	990728-MW15-66-03	2708-W048	28-Jui-99	0.15		ND .	0.16		ND.	0.11	T	ND "	ND.	0.14	0.3	ND.	0.57	0.17	0.34	0.83	2.5
	991026-MW15-66-07	2708-W054	26-Oct-99			1	ND*		ND*	ND*	ND"	ND*	ND"	1	ND.				1		ND
	000329-MW15-66-108	2708-W060	1	0.57	0.59	0.6	0.77	0.67	0.18		ND*	ND *	0.11	0.66	0.96		ND "	0.33	0.96	3.91	6.9
	000815-MW15-50-104	2708-W064	15-Jun-00	1.93	1.96	1.61	2.64	1.91	0.57	1.55	0.14	, מא	0.39	2.04	3.32	NO.	ND *	1.07	2.92	12.17	22.1
	Contaminant Levels (MCLs			#	#	#	2.	#	#	#	#	#	#	#	#	#	#	#	#	#	#
	Preliminary Remediat Goals			0.092	0.092	0.92	0.0092	9.2	0.0092	0.092	370.	#	1,800.	#	1,500.	240.	6.2	#	180.	# 00044	#
DEG AMBIERT	Water Quality Criteria (AWQ	C) for Surface V	vater -	#25 B	#	#	# .	#	#	#	520. °	#	#	#	54.	#	620.	#	#	. 0.031 4	#

# = Reference Level not established EPA = U.S. Environmental Protection Agency ND = not detected above detection limit indicated ODEQ = Oregon Department of Environmental Quality PAHs = polynuclear aromatic hydrocarbons

ppb = parts per billion

ug/l = micrograms per liter Bold and shaded = Detected above lowest identified Reference Level

a = detection limit is 0.1 ug/l (ppb) b = detection limit is 1. ug/l (ppb)

c = detection limit is 2. ug/l (ppb) d = detection limit is 10, ug/l (ppb)

e = detection limit is 20. ug/l (ppb)

1 = Sample number prefix: 27082 = Reference Level indicated is the lowest guidance value provided in the Amblent Water Quality Criteria (OAR 340-41) based on Fresh Acute, Fresh Chronic (Aquatic Life Protection) and Fish Consumption Only (Human Health Protection)
3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC
4 = Reference Level based on Human Fish Consumption Criteria of AWQC

Table 2 - Summary of Analytical Results for Quality Assurance / Quality Control (QA/QC) Samples June 2000 Sampling Event

Remedial Investigation Northwest Natural - Gasco Facility Portland, Oregon

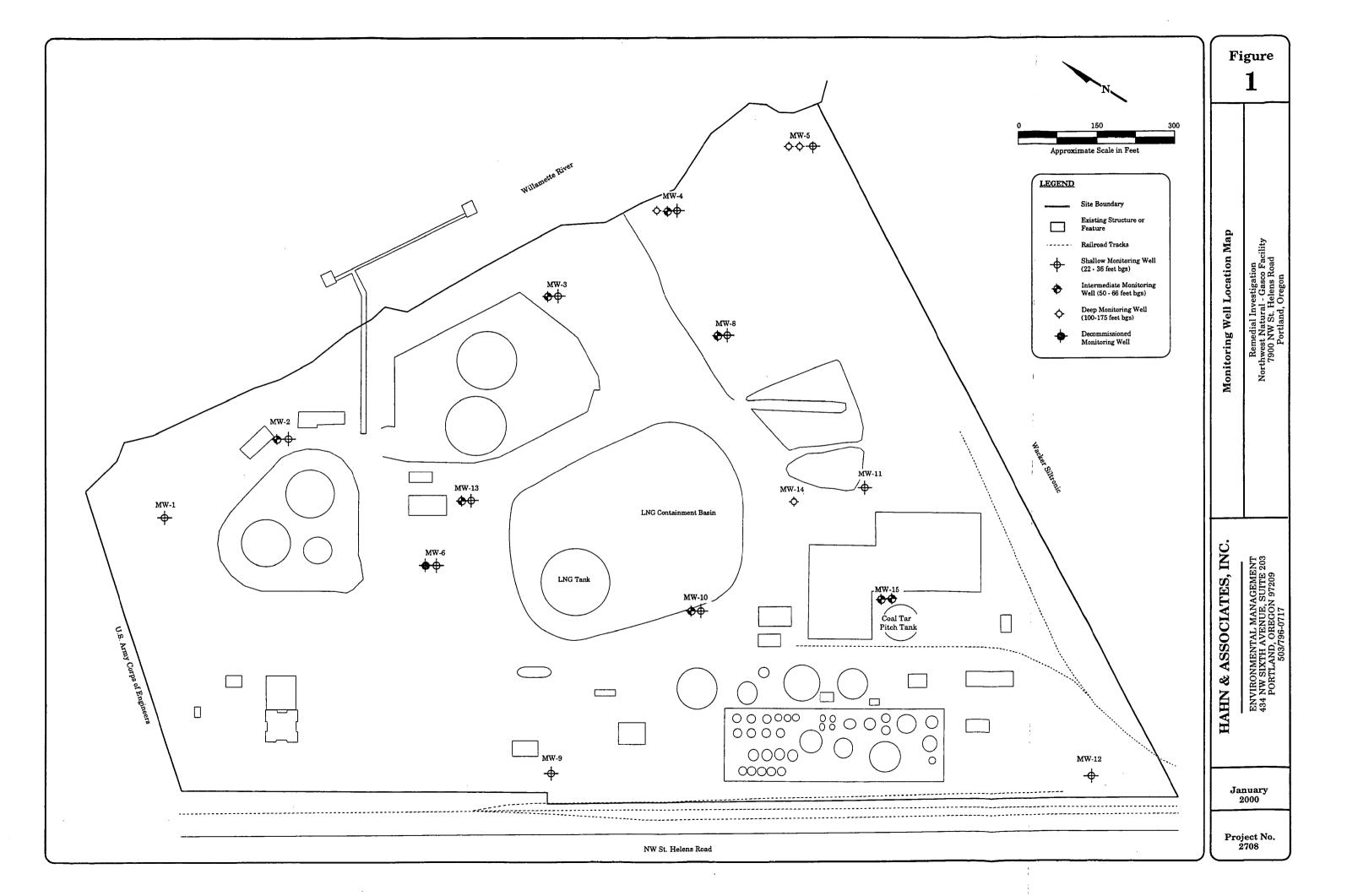
Project No. 2708

QA/QC Sample Type	HAI Sample Number	Chain of Custody Number	Date	Comment		E		tical Results g/I (ppb) 20		EPA Method 8270		
					Benzene	Toluene	Ethyl benzene	Xylenes	Naphthalene	Total PAHs		
Trip Blank	2708-000615- MW7-101	2708W064		Deionized water in sample containers and transported with samples in cooler.	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND>2	-		
Equipment Blank	2708-000615- MW7-103	2708-W064	15-Jun-00	Deionized water through decontaminated pump after sampling MW-14-110 and prior to sampling MW-15-66	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND>2	ND>0.1		

Note:

bgs = below ground surface BTEX = benzene, toluene, ethylbenzene, and xylenes EPA = U.S. Environmental Protection Agency ND = not detected above detection limit indicated

PAHs = polynuclear aromatic hydrocarbons ppb = parts per billion ug/l = micrograms/liter



# Table 1a - Summary of Analytical Results for Groundwater Samples June 2000 Sampling Event

Remedial Investigation Northwest Natural - Gasco Facility

Portland, Oregon

Project No. 2708

Well Number	HAI Sample Number <sup>1</sup>	Chain of Custody	-Sample Date							Ana	lytical Results		4.01	, i	ļ			
		Number			).E	PA Method 80	20		EPA Metho	d 8270 SIM	EPA 335 Series	EPA Method 901		Total (U	Infiltered) Meta	als by EPA Me	thod 6010	
						-ug/l (ppb)			ug/l	(ppb)	.mg/l (ppm)	.mg/l (ppm)			mg/l	(ppm)		
				Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	Carcinogenic PAHs	Total PAHs	Total Cyanide	Amenable Cyanide	Arsenic	Chromium	Copper	Lead	Nickel	Zinc
MW-14-110	000615-MW14-110-102	2708-W064	15-Jun-00	4.85	ND>0.5	ND>0.5	ND>1.5	4.9	ND	0.2		ND>0.02	.⊈∷0.0136	ND>0.005	ND>0.005	ND>0.005	ND>0.005	ND>0.005
MW-15-50	000615-MW15-50-105	2708-W064	15-Jun-00	1,490.	14.3	6.62	42.	1,552.9	268.	475.	-	ND>0.02	ND>0.005	0.006	ND>0.005	ND>0.005	0.0064	0.0359
Duplicate	000615-MW15-50-106	2708-W064	15-Jun-00	1,270.	10.	5.16	28.4	1,313.6	254.	451.		ND>0.02	ND>0.005	ND>0.005	ND>0.005	ND>0.005	ND>0.005	0.0388
MW-15-66	000615-MW15-50-104	2708-W064	15-Jun-00	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	12.17	22.	<u>-</u>	ND>0.02	0.0054	ND>0.005	ND>0.005	ND>0.005	ND>0.005	0.0214
EPA Maximum	Contaminant Levels (MCLs	) for Drinking W	ater	5.	1,000.	700.	10,000.	#	#	#	0.2	#	0.05	0.1	1.	0.015	0.1	5.
EPA Region 9 F Tap Water (10/9	Preliminary Remediation Go	als (PRGs) for		0.41	720.	1,300.	1,400.	#	#	#	#	0.73	0.00005	0.11	1.4	#	0.73	11.
DEQ Ambient V	Vater Quality Criteria (AWQ	C) for Surface V	Vater <sup>2</sup>	40. <sup>3</sup>	424. ³	1,400. <sup>3</sup>	#	#	0.031 4	***	0.0052 4	#	0.000017 4	0.011 <sup>3</sup>	0.012 3	0.0032 3	0.1 4	0.113

Note:

BTEX = benzene, toluene, ethylbenzene, and xylenes EPA = U.S. Environmental Protection Agency

mg/l = milligrams/liter

ND = not detected above detection limit indicated PAHs = polynuclear aromatic hydrocarbons ppb = parts per billion

ppm = parts per million ug/l = micrograms per liter # = Reference Level not established Bold and shaded = Detected above Reference Level

1 = Sample number prefix: 2708-2 = Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41) based on Fresh Acute, Fresh Chronic (Aquatic Life Protection) and Fish Consumption Only (Human Health Protection) 3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC 4 = Reference Level based on Human Fish Consumption Criteria of AWQC

Table 1b - Summary of Analytical Results for Groundwater Samples: June 2000 PAHs by EPA Method 8270

Remedial Investigation Northwest Natural - Gasco Facility Portland, Oregon

Project No. 2708

PAHs by EP	A Method 8270 (SIM)												al Results (ppb)			i.	33				
		7.00	:00°*			Ca	rcinogenic P	AHs						Non	carcinogenic	PAHs	y y k	38g - 10 16 g 15 1			
Well Numběř	Sample Number .	Chain of Custody Number	Sample Date	Bênzo (a) anthracene	Berzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Chryseria	Olbenzo (ah) arithracene	indeno (1,2,3-cd) pyrene	Acenaphithene	Acenaphitiylene	Anthracene	Benzo (ghl), perylene	Fluoranthène	Fluorene	Naphthalene	Phenanthrene	Pyrene	Total Carcinogenic PAHs	Total PAHs
MW-14-110	000615-MW14-110-102	2708-W064	15-Jun-00	ND ª	ND *	ND ª	ND ª	ND "	ND *	ND ª	0.18	ND ª	ND <sup>a</sup>	ND *	ND ª	ND *	ND a	ND ª	ND ª	ND	0.2
MW-15-50	000615-MW15-50-105	2708-W064	15-Jun-00	43.6	45.5	38.5	57.1	.40.5	8.95	33.5	2.91	0.59	4.11	41.8	69.7	1.66	1.23	25.	60.1	267.65	474.75
Duplicate	000615-MW15-50-106	2708-W064	15-Jun-00	40.	44.1	36.3	53.5	38.3	8.87	32.6	2.96	0.77	4.1	40.2	65.2	1.71	1.23	23.8	57.3	253,67	450.94
MW-15-66	000615-MW15-50-104	2708-W064	15-Jun-00	1.93	1.96	1.61	2.64	1.91	0.57	1.55	0.14	ND ª	0.39	2.04	3.32	ND ª	ND *	1.07	2.92	12.17	22.05
EPA Maximur	n Contaminant Levels (MCLs)	for Drinking Wa	ater	#	#	#	2.	#	#	#	# 4 (3)	#	#	#	#	#	#	#	#	#	#
EPA Region 9 Tap Water (1)	9 Preliminary Remedial Goals 0/99)	(PRGs) for		0.092	0.092	0.92	0.0092	9.2	0.0092	0.092	370.	#	1,800.	#	1,500.	240.	6.2	#	180.	#	#
DEQ Ambient	: Water Quality Criteria (AWQC	C) for Surface W	Vater <sup>2</sup>	#	#	#	#	#	#	#	520. <sup>3</sup>	#	#	#	54. <b>4</b>	#	620. ³	#	#	0.031 4	#
NOTE:	ND = not detected above det	ection limit indic	cated		-	ppb = parts	per billion		<del>*</del>	Bold and sha	ded = Detec	ed above Re	ference Leve	el			,	a = detecti	on limit is 0.	1 ug/l (ppb)	

ND = not detected above detection limit indicated PAHs = polynuclear aromatic hydrocarbons

ppb = parts per billion ug/l = micrograms per liter Bold and shaded = Detected above Reference Level

# = Reference Level not established

3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC 4 = Reference Level based on Human Fish Consumption Criteria of AWQC

1 = Sample number prefix: 2708-2 = Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41)

Updated: 8/1/00 RBE File Name: 2708 GW Results\_June\_00.wks

Page 1 of 1 HAHN AND ASSOCIATES, INC.

# KOPPERS INDUSTRIES

FAX TRANSMITTAL

7540 N.W. Saint Helens Rd. Portland, Oregon 97210-3663 Phone: (503) 286-3681

Fax: (503) 285-2831 Web Page: www.koppers.com

IO: J. Diete, T. Self, B. Melsinger	DATE: 6/24/99
FROM: Amos	TOTAL # OF PAGES: 6
The ATTACHED F. Y. I.	
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## HAHN AND ASSOCIATES, INC. ENVIRONMENTAL MANAGEMENT

# RECEIVED

JUN 2 3 1999

KOPPERS INDS, INC. PORTLAND OR

June 21, 1999

Mr. Eric Blischke Oregon Department of Environmental Quality Voluntary Cleanup and Site Assessment Section 811 SW 6<sup>th</sup> Avenue Portland, Oregon 97204

HAI Project No. 2708

SUBJECT: Proposed Monitoring Well Installation Activities, Koppers Lease Area, Northwest Natural-Gasco Facility, 7900 NW St. Helens Road, Portland, Oregon

Dear Mr. Blischke:

As documented in correspondence dated May 24, 1999 (Blischke to Hart), the Oregon Department of Environmental Quality (DEQ) has expressed concerns regarding the location of groundwater monitoring wells as originally proposed for installation downgradient of the new Koppers coal tar pitch tank supports at the Northwest Natural – Gasco facility. These wells were initially proposed for installation in a work plan submitted to the DEQ dated May 13, 1999 (Ede to Blischke), with the proposed installation of a bedrock and an alluvial unit well located approximately 100 feet down-gradient of the tank supports, immediately north of the Koppers Pencil Pitch Storage Building.

The DEQ has requested that the proposed location of the wells be revised such that they would instead be installed as close as possible to the tank foundation supports (on the down-gradient side). As discussed during a site meeting with the DEQ on June 9, 1999, it has been concluded that installation of a well within the adjacent pencil pitch storage building (to the north-northeast) would not be feasible due to drill rig mast height restrictions, and that installation immediately east would not be ideal due to the possibility of construction within that area over the next several of years. Based on the preceding, the DEQ agreed that, assuming drill rig access is possible, then installation of the wells immediately to the north of the tank foundation supports would adequately satisfy DEQ's objectives for these wells. Follow-up evaluation indicates that by removing overhead piping and by placing a granular fill foundation suitable for the drill rig, access, although limited, would be sufficient for the installation of the proposed wells at the DEQ-desired location. The proposed wells, tentatively designated as MW-15-50 and MW-15-65, based on their anticipated depths, are depicted on Figures 1 and 2. The final well designations will be modified based upon their actual depths.

Additionally, as requested by DEQ, instead of the installation of one alluvial zone well and one bedrock well as originally proposed, the scope has been revised such that two alluvial unit wells would be installed. Specifically, one well would be installed at the top of the alluvial zone (immediately below the silt unit), while the second well would be installed at the base of the alluvial zone (immediately above the bedrock surface). Both wells would be constructed and double-cased through the silt unit as per the May 13, 1999 Work Plan. As per DEQ's request, the shallow well will be constructed with a 10-foot section of screen, while the deep well will be installed with a 5-foot section of screen. Based on available data for the area (geotechnical boring G-2 and tank foundation support data), it is estimated that the shallow well will be constructed to a depth of approximately 50 feet below ground surface (bgs), while the deep well will be constructed to a depth of approximately 65 feet bgs.

434 NW SIXTH AVENUE, SUITE 203 • PORTLAND, OREGON 97209-3600 503/796-0717 OFFICE • 503/227-2209 FAX



Proposed Monitoring Well Installation Northwest Natural - Gasco Facility 7900 NW St. Helens Road Portland, Oregon Page 2 of 2 Project No. 2708 June 21, 1999

All borehole drilling and well installation work will be performed with air rotary drilling methodology as indicated in the May 13, 1999 Work Plan. Continuous soil core sampling will be conducted with a hydraulic push probe sampling device through the silt unit in order to verify appropriate surface casing placement. Below the silt unit, soil samples will be collected at approximate 5-foot intervals via split spoon sampling methodology. Soil samples will be collected for lithologic descriptive purposes only unless field screening results indicate the presence of contamination at locations that do not correlate with the site conceptual model.

With the approval of DEQ, drilling will be scheduled to commence the week of June 28, 1999. Subsequent to that week, access to the proposed well locations cannot be guaranteed.

If there are any comments or questions, please contact either the undersigned.

Sincerely,

Robert Ede

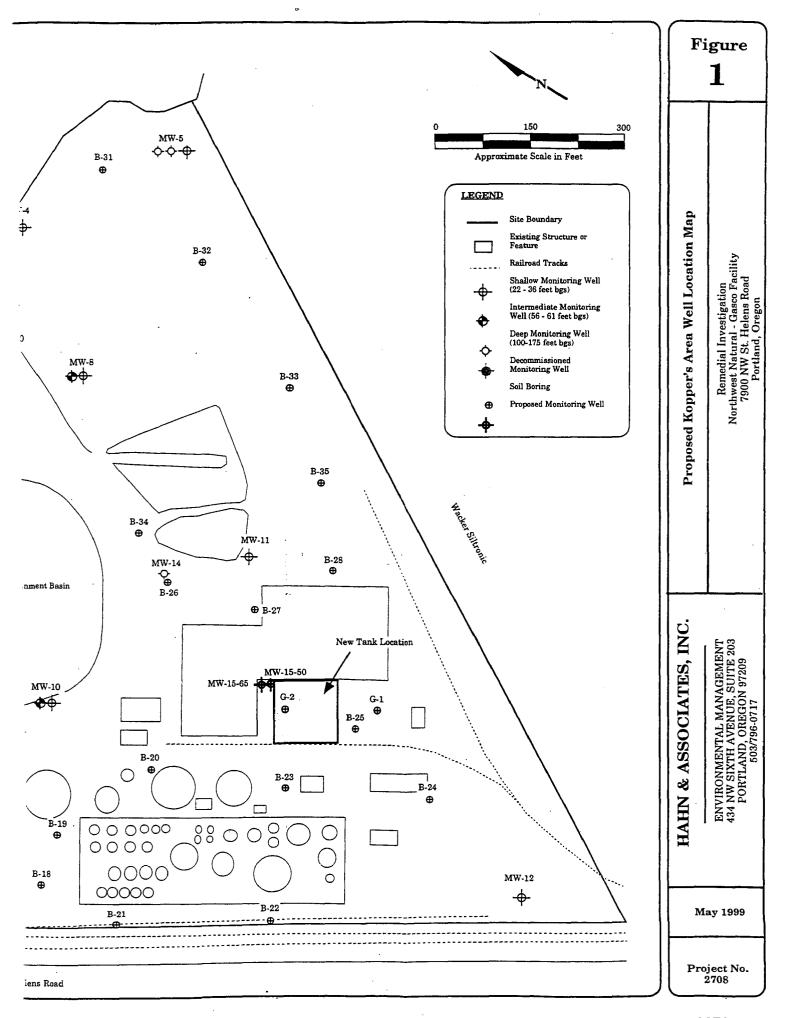
Project Manager

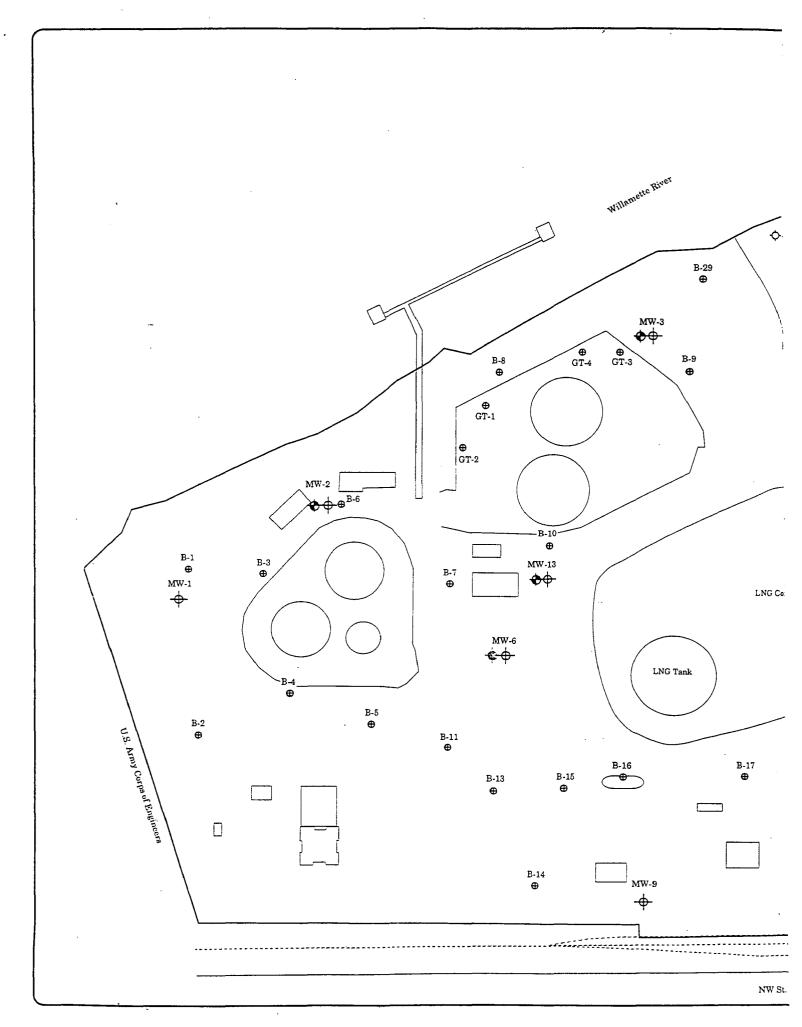
c: Ms. Sandra Hart, Northwest Natural

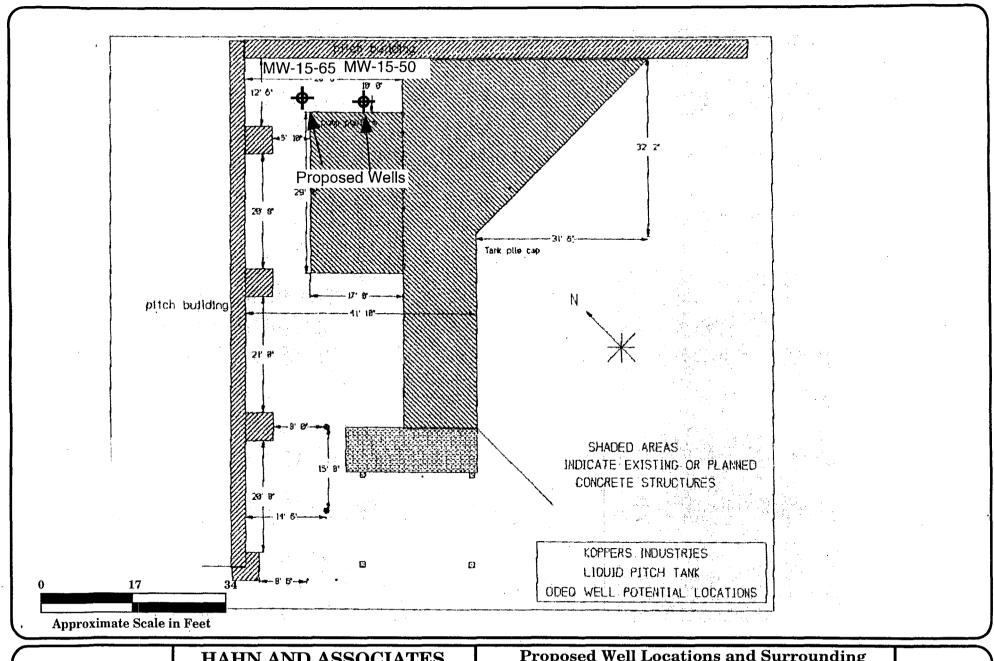
Mr. Amos Kamerer, Koppers Industries

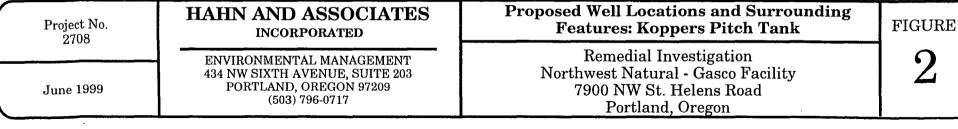
Mr. Richard Bach, Stoel Rives, LLP

Mr. Frank Selker, Decision Focus, LLC



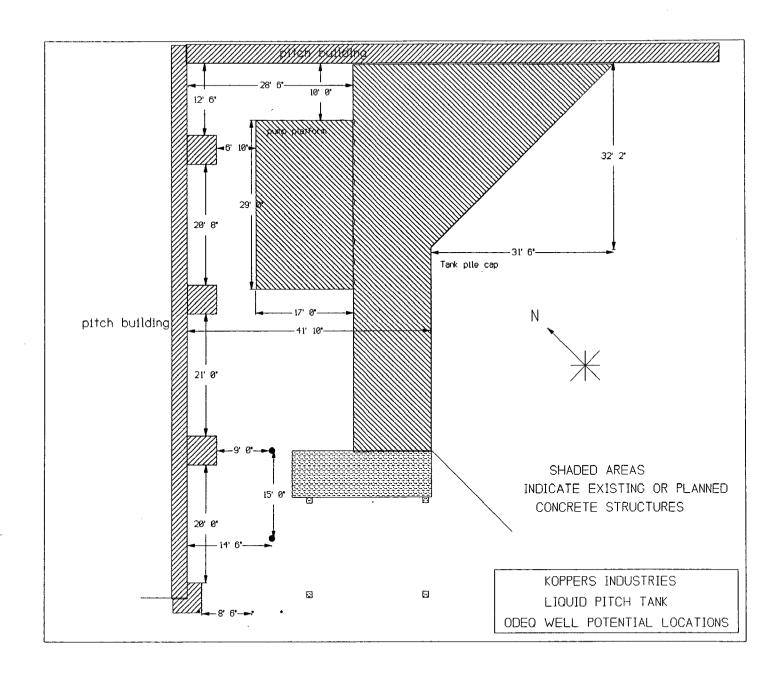






Koppers003879

Project No. 2708



TOAMOS	
Date 6.18.99 Time_	2:07 DAM
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of GEOTECH	
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Office 692-6400	Please call
Voicemail	Returned your call
FAX	_ Called to see you
Pager	_
Mobile	Will call again
e-mail	- URGENT
Just wanted to ta	lk about
the drill schedu	led for
week of 28TH	9AM
AMPATO LONGHY CODE	Reorder #23-000

# KOPPERS INDUSTRIES

FAX TRANSMITTAL

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Portland, Oregon 97210-3663
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Fax: (503) 285-2831
Web Page: www.koppers.com

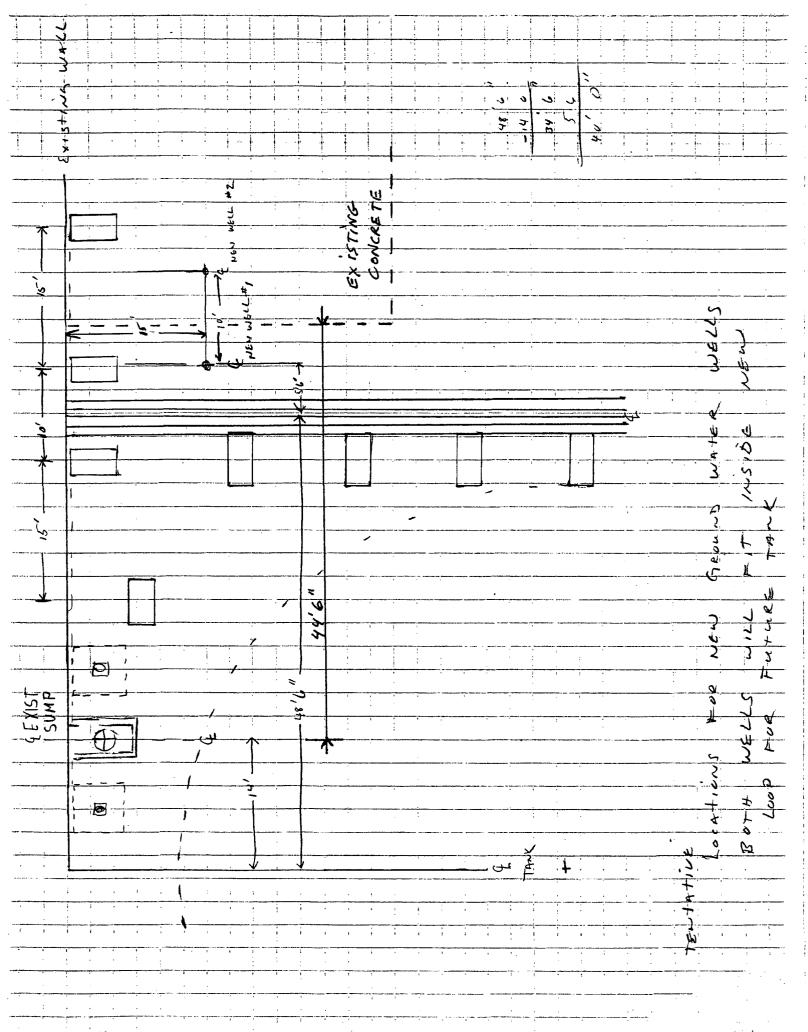
TO: Rob Ede, Hahn & Assoc. DATE: 6/15/98  FROM: Amos TOTAL # OF PAGES: 2  Here's the Craning of the North Coursen trank Anca  (All if Any questions.  We Are Still looking At the w/o 6/28, or even the  Poss.b.il.ty of the weetend pron (6/26/27).  Rob  5 day Fob to Je!!! Available wife 6/20/99  IF THIS TRANSMITTAL IS IN ERROR, PLEASE CALL 503-286-3681 FAX # 503-285-2831		
FROM: Amos  TOTAL # OF PAGES: 2  Here's the drawing of the North Conven tank Anea  (All If Any questions.  We Are Still looking At the w/o 6/28, or even the  Poss. billty of the weetend puon (6/26/27),  Rob  5 day Fob to drill Available who 6/28/99	TO: Rob Ede, HAhn + Assoc.	DATE: 6/15/99
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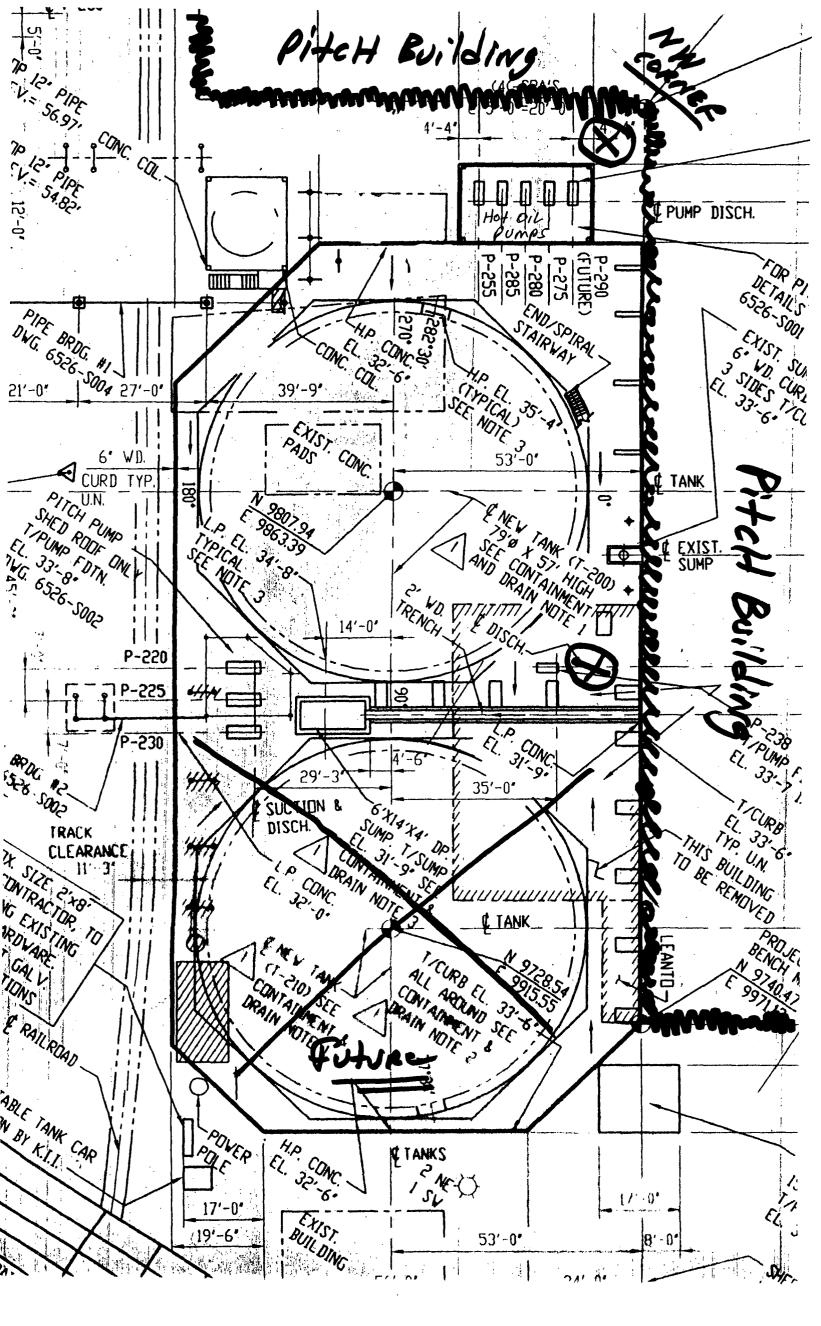
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7540 N.W. Saint Helens Rd.
Portland, Oregon 97210-3663
Phone: (503) 286-3681
Fax: (503) 285-2831
Web Page: www.koppers.com

TO: TRACI Self, K-1800	DATE: 6/15/99
FROM: Amos	TOTAL # OF PAGES: 2
Here's the bayout of the	Acces that the
DEQ is looking At for the	e New wells.
Here's the bayout of the DEQ is looking At for the CAN OF Any guestions.	
7	
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IF THIS TRANSMITTAL IS IN ERROR, PLEASE CALL 5	503-286-3681 FAX # 503-285-2831





Author: Traci Self at PITT Date: 5/25/99 5:57 AM

Priority: Normal

TO: AMOS KAMERER at PITT
TO: Kevin Fitzgerald at PITT
TO: BILL MEISINGER at TECHCTR
TO: Jack Stephenson at PITT

TO: iskoppers@aol.com at internet

TO: Jim Dietz at PITT Subject: Re[2]: ODEQ

----- Message Contents

I will respond to NWNG and I would like to be involved in well location selection. The locations will be very important is we need to install additional tanks. We also should be very careful about well placement in buildings or very near other locations which we have used for a while.

I have not heard from Sandy Hart and I have not received any workplan for well placement or the VCP agreement that she agreed to send(unless they were received yesterday). When I return to the office Wednesday afternoon I will contact Amos and contact NWNG, if necessary.

Reply Separator

Subject: Re:ODEQ

Author: Jim Dietz at PITT Date: 5/21/99 8:12 AM

Amos,

We want Traci to draft a note to Sandy that indicates that Koppers wants to approve the location of the well primarily from the standpoint of the required access during operation and the proper analysis of the goals of testing and criteria for determining the use of the data gathered.

Jim

Author: AMOS KAMERER at PITT Date: 5/20/99 4:51 PM

Priority: Normal

TO: Jim Dietz at PITT

CC: Kevin Fitzgerald at PITT CC: BILL MEISINGER at TECHCTR CC: Jack Stephenson at PITT

CC: Traci Self at PITT

CC: iskoppers@aol.com at internet

Subject: ODEQ

----- Message Contents

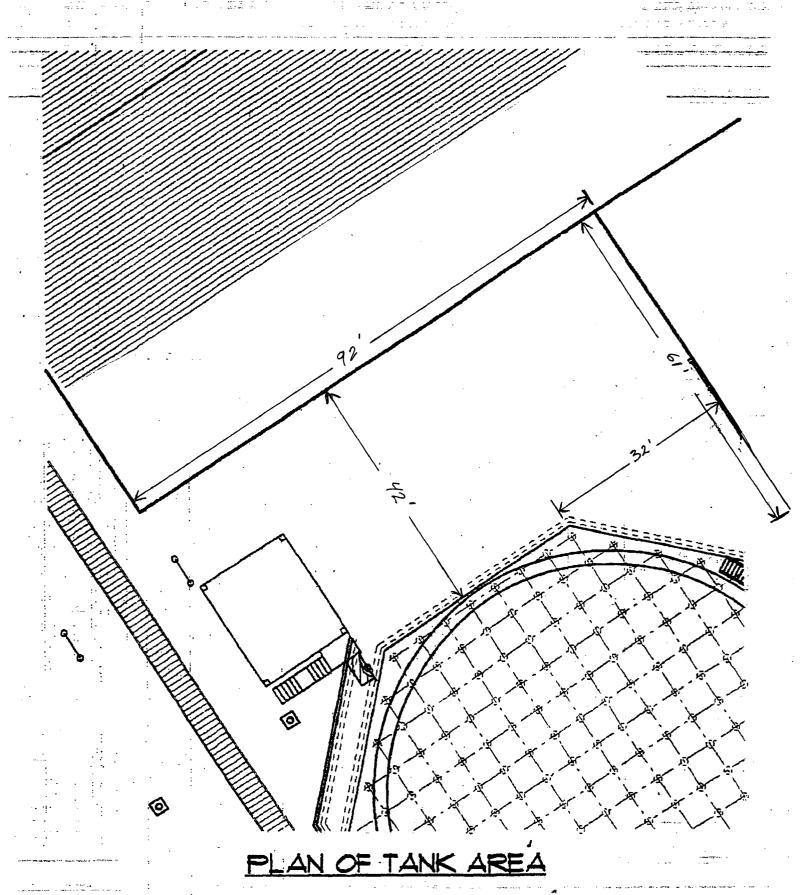
Jim,

FYI. I had a call from Rob Ede, Hahn and Assoc., NWN's Environmental consultant, who said that he had a one hour conference call today with the ODEQ, about the location of the new wells. The ODEQ hydrologist thinks that the wells should be as close to the tank as is possible, Rob thinks different. So, the well drilling has been put off for the time being, until they come to an agreement.

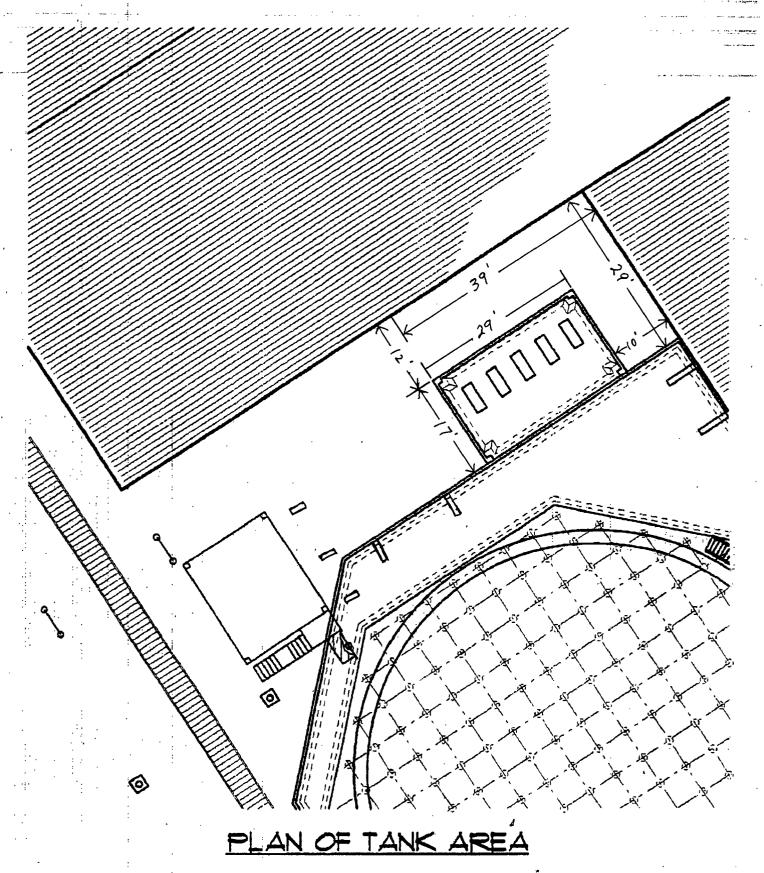
Rob, understands that we are in construction and that some area's are now off limit's, etc.. They also asked Rob about putting them in the pitch building; the only location that I said was available, does not accommodate the well drilling rig's needed height, so that's out.

I just wanted to keep everyone posted on this matter.

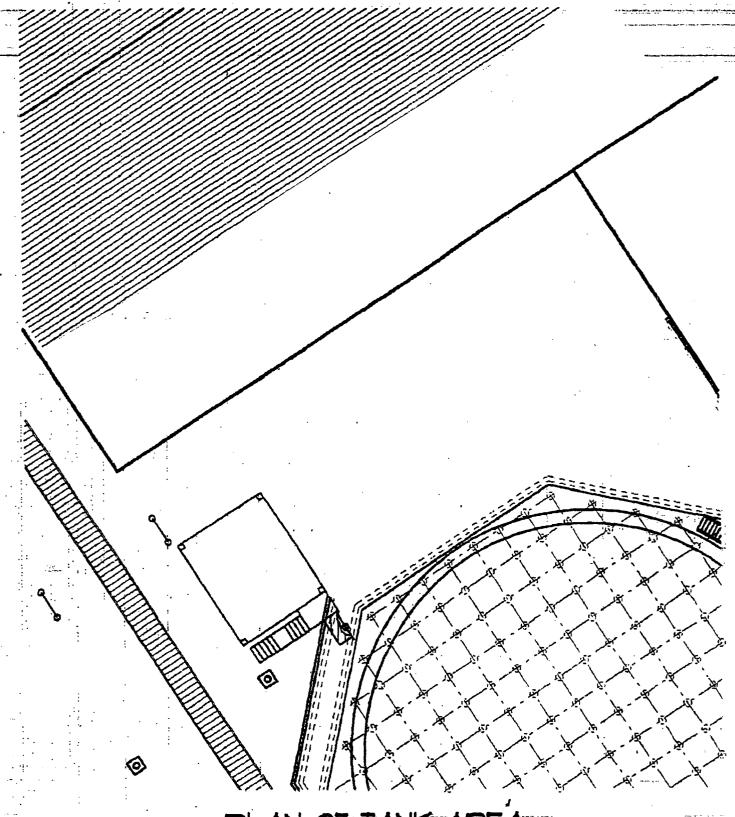
Amos



Koppers Pitch Ship Terstinal P31-10 Scale: 116" « 1'-0"

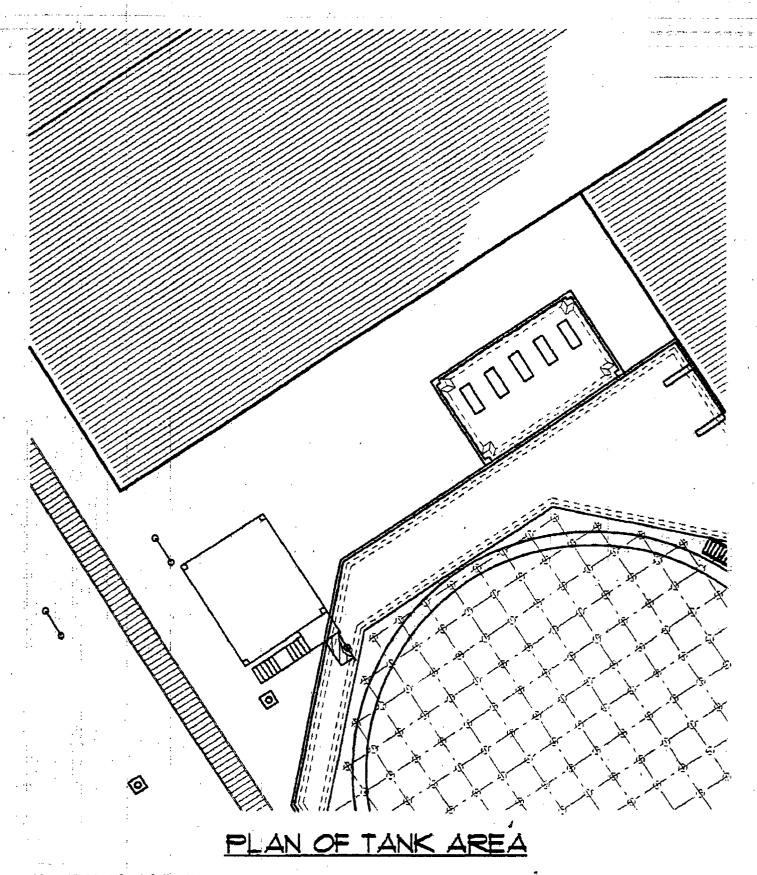


Kotterd Pitch Ship Tertinal P91-10 Scale: 1/6" - 1'-0"

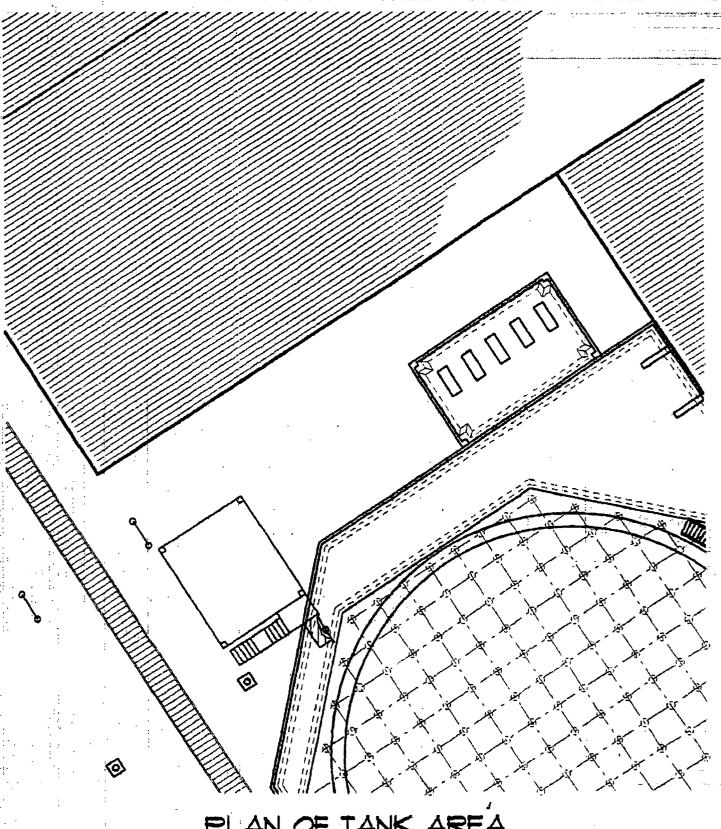


# PLAN OF TANK AREA

KOPPERS PITCH SHIP TERMINAL PSI-10 SCALE: N6" « 1'-0"

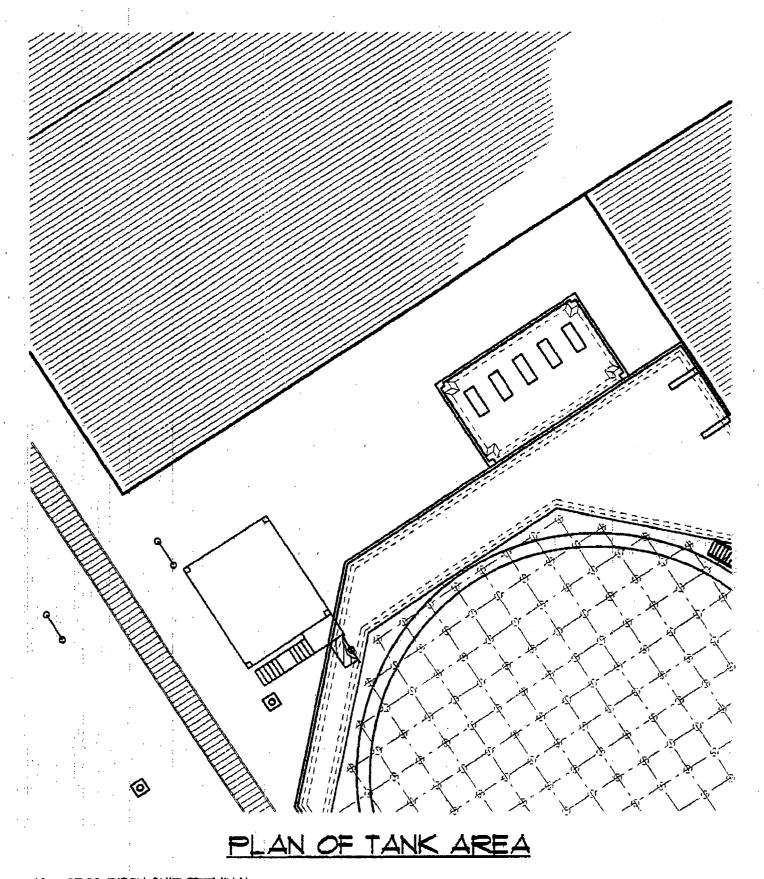


Koppers Pitch Ship Terminal P91-10 Scale: 1/6" = 1'-0"



PLAN OF TANK AREA

ERS PITCH SHIP TERMINAL



KOPPERS PITCH SHIP TERMINAL PST-10 SCALE: 1/16" • 1'-0"



#### INTEROFFICE CORRESPONDENCE

Larry Flaherty

From: John A. Oxford

Location K-1750

Location: Portland Plant

Subject: Soil Sample

Date: July 30, 1992

#### Dear Larry:

Per your instructions and in conjunction with instructions from William Swearingen a soil sample from the building site for the new pitch storage building, was taken and submitted for analysis. This sample was given to Coffey Lab in Portland (a D.E.Q. Registered Lab) for T.C.L.P. and Characteristic Analysis. Results of sample show no detectible components for Pesticide or Organics. The only result was on the metals test, it showed a result of Barium in. the amount of 0.4 P.P.M., the allowable amount is 100 P.P.M. for this element.

I assume that this good news will allow us to proceed with our construction plans. A copy of the results will be sent to William Swearingen as soon as they are received.

Regards,

John

C.C. A. Kamerer Western Region

E. Bennett K-2050

W. Swearingen K-1800

W. Turner K-1600

## COFFEY LABORATORIES INC.

12423 N.E. WHITAKER WAY, PORTLAND, OR 97230 (503) 254-1794 • FAX (503) 254-1452



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## **CHAIN OF CUSTODY**

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SAMPLES COLLECTED BY: A. OX	FORD				CUSTABBR:	S
FIELD IDENTIFICATION:  ONE LINE PER SAMPLE CONTAINER	LAB	COLLECTION  DATE TIME	MEDIA	ANALYSIS R	EQUESTED	ANALYSIS REMARKS
BUILDING SITE		10:00 7-17 Am	SOIL	1 1 2	+ CRARECTARI	C71CS
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RELINQUISHED BY:		3 4	IVED BY LAB:	May Fort	DATE/TIME 1	192 1215
SAMPLE REMARKS:  WHITE COPY - COFFEY LABORATORIES		U	EVEL 1	. 8	PRESS UPS MAIL OXX	GREY TAXI LAB

Koppers003895



# RECEIVED

AUG - 3 1992

KOPPERS INDS., INC.

Report Date: July 30, PORTLAND, OR

Job#: GE-920717N-1

PO#: VERBAL JOHN

Project#: None Project: None

Attention: John Oxford

Koppers Industry

7540 NW St. Helens Rd. Portland, OR 97210

SAMPLE INFORMATION:

Date Samples Were Received By Laboratory: 07/17/92

Lab No. Field Identification Sample Matrix Time Date 1 Building Site Soil 07-17-92 1000

ANALYTICAL RESULTS ARE ON THE FOLLOWING PAGE(S)

Sincerely,

Řenee Chauvin Technical Director

RJC/mlh

This report is for the sole and exclusive use of the above-named client. Samples are retained 15 days from the report date, or until holding time expires. Results pertain only to samples submitted.



Job#: GE-920717N-1

Koppers Industry Page 2

SUBJECT: TCLP Analysis

Sample ID: Building Site

ANALYTE	<u>METHOD</u>	DETECTIONLIMIT	SAMPLE RESULTS	EPA LIMIT
Arsenic	rk	0.8	ИD	5.0
Barium	*	0.1	0.4	100
Cadmium	*	0.1	ND	1.0
Chromium	<b>ं</b>	0.1	ИD	5.0
Lead	*	0.4	ND	5.0
Mercury	<i>\$,</i> 7470	0.05	ND	0.2
Selenium	*	0.8	ND	1.0
Silver	**	0.1	ND	5.0

<sup>\*</sup> Leachate preparation by EPA SW-846 Method 1311. Analysis by EPA SW-846 Method 6010, ICP, unless otherwise noted.

Analysis Performed: Volatile organics in TCLP extract, by EPA Methods 8010/8020, GC/PID/HED.

ANALYTE	DETECTION LIMIT	LABORATORY BLANK	SAMPLE RESULTS	EPA LIMIT
Benzene	0.05	ND	ND	0.5
Carbon tetrachloride	0.05	ND	ND	0.5
Chlorobenzene	0.05	ND	ND	100
Chloroform	0.05	МD	ND	6.0
1,4-Dichlorobenzene	0.05	MD	ND	7.5
1,2-Dichloroethane	0.05	ND	ND	0.5
1,1-Dichloroethylene	0.05	ИD	ND	0.7
Methyl ethyl ketone	0.50	ND	ND	200
Tetrachloroethylene	0.05	ND	ND	0.7
Trichloroethylene	0.05	ИD	ND	0.5
Vinyl chloride	0.20	MD	ND	0.2

Results expressed as mg/L unless otherwise noted.

ND means none detected at or above the detection limit listed.

REPORT CONTINUES



Job#: GE-920717N-1

Koppers Industry Page 3

Analysis Performed: Chlorinated semi-volatile organics in TCLP extract,

by modified EPA Methods 8080/8150, GC/ECD

Sample ID: Building Site

ANALYTE	DETECTION LIMIT	LABORATORY BLANK	SAMPLE RESULTS	EPA LIMITS
Chlordane	0.03	ND	ND	0.03
Heptachlor	0.001	MD	ND	0.008
Hexachlorobenzene	0.001	ND	ND	0.13
Hexachloro-1,3-butadie	ne 0.02	ИD	ND	0.5
Hexachloroethane	0.02	ND	ND	3.0
Endrin	0.004	ND	ND	0.02
Lindane	0.004	ИD	ND	0.4
Methoxychlor	0.02	MD	ND	10.0
2,4-D	0.02	ND	ND	10.0
2,4,5-TP	0.02	ND	ND	1.0
Toxaphene	0.03	ND	ND	0.5

Results expressed as mg/L unless otherwise noted.

ND means none detected at or above the detection limit listed.

Analysis Performed: Phenols and miscellaneous semi-volatile organics in TCLP extract, by modified EPA Method 8040, GC/FID

ANALYTE	DETECTION LIMIT	LABORATORY BLANK	SAMPLE RESULTS	EPA LIMITS
m-Cresol	5.0	ND	ИD	200
o/p Cresol	5.0	ИD	ИD	200
2,4-Dinitrotoluene	0.1	ND	ИD	0.13
Nitrobenzene	0.1	ИD	ИD	2.0
Pentachlorophenol	5.0	ND	ИD	100
Pyridine	1.0	ND	MD	5.0
2,4,5-Trichloropheno	ol 5.0	ИD	ND	400
2,4,6-Trichloropheno	0.2	ИD	ИD	2.0

Results expressed as mg/L unless otherwise noted.

ND means none detected at or above the detection limit listed.

412 227 2202

·			]	V91204831				
1) Shipper/Reporter		9 No. 4 date of UC P/O NO. 0M9-1670-1 DATED JAN. 25, 1999						
DAEWOO CORPORATION P. O. BOX 2810								
		18) LJC Issuing back						
2) For Account A Risk of Massey. KOPPERS INDUSTRI	ES. INC.							
C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		- TRIS INVOICE AMO						
J)Mulify Party KOPPERS INDUSTRI' C/O PORT OF PORT PORTLAND OREGON,	LAND	ON DA BEFORE 320	N. &Z, ZDC					
4) Port of leading KWANGYANG, KORRA	Spinal destination PORTLAND, OREGON, U. S. A	- Origin	AL					
OSPREY ARROW	7) Railing on / about DEC. 08, 1999	-						
12) Marks and runbers of FUE	13) Description of guest	14) Quant Hy/Tad L	15) Unit-price	16) Assent				
_N/M IN BULK		FOR EWA	NGYANG ROE	LBA				

1999,12-20

ERIN/AMOS

LIQUID PITCH

4, 681\_ 494**M/T** 

- GRAVITY : 1.26 1.27
- INVOICE NO. : HVBT190064A01 DATED DEC. 08, 1999
- PAYMENT INSTRUCTION PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T) TO ACCOUNT NO. 361-81-100332 SBIN EAN BANK, SEODAEMIN BRANCE, SECOL, KOREA IN FAVOUR OF DAEWOO CORP SECUL (BVR SECTION) AND PLEASE INDICATE OUR REFERENCE NO. HVBT190064A01 WHEN YOU REMIT THIS INVOICE AMOUNT.

17) C.P.O. 2810 SBOUL, KOREA CABLE : DAEVOU SECUL TRIBE : DAHWOO K23341.4, K24295

TELEPHONE = 759-2114

CORPORATION

WET199064A01

GIL DET. S-DET. LOC. DEPT. TAX				MOVE N EMP # PO # AMOUNT				CIRCLE TERMS ON INVOICE			
- EUD	/2	99	9270	céés			1/32922	_	INV		MTE 12/8 199
				 ļ					A/P DEPARTMENT USE ONLY		
				 ļ					VENDOR NUMBER		
									TERMS, CODE ·	DUE D	ATE: / /
MEPORTANT: CIRCLE TERMS ON INVOICE				GROSS AMOUNT			DIVISION	MONTH	AUDIT NUMBER		
				DISCOUNT 0			103	17-	12		
				NET 8							

TO:286 3681

**KOSCO** 

KOREA STEEL CHEMICAL CO.LTD.

12, 13TH FLOOR, SAMDO BLDG., 1-170,
SUNHWA-DONG, CHUNG-GU, SEOUL, KOREA
TEL: (02) 3705-7000 FAX: (02) 771-0741-8

## ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC. 7540 NW SAINT HELENS ROAD, PORTLAND, OREGON 97210-3663

TEL: 503 286 3681 FAX: 503 285 2831

ATTN: MR. AMOS S. KAMERER

DATE : DEC. 10, 1999

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS;

► INVOICE NO.

: HVBTI90064A01 DATED DEC. 08, 1999

**▶ QUANTITY** 

: 4,681,494MT OF LIQUID PITCH

**►** AMOUNT

► ON BOARD DATE

: DEC. 08, 1999

DUE DATE

: JAN. 22, 2000

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE JAN. 22, 2000 TO THE BANK AND ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

► VESSEL NAME

: M/V "OSPREY ARROW"

FROM KWANGYANG KOREA, TO PORTLAND, OREGON, U. S. A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HEREWITH ;

1. BILL OF LADING

: 3 ORIGINALS + 2 COPIES

2. COMMERCIAL INVOICE

3 ORIGINALS

3. COUSTOMS INVOICE

3 ORIGINALS

4. CERTIFICATE OF ORIGIN

1 ORIGINAL + 1 COPY

5. CERTIFICATE OF ANALYSIS

3 ORIGINALS

6. CERTIFICATE OF WEIGHT

\*\*\*\*\*\*

O. CERTIFICATE OF WEIGHT

3 ORIGINALS

7. CERTIFICATE OF VESSEL CLEANLINSS

: 3 ORIGINALS

BEST REGARDS.

J. W. LEE

**GENERAL MANAGER** 

KOREA STEEL CHEMICAL CO., LTD



We sequired ISO 9002 and ISO 14001 certification

1U:286 3681

PHUE: 02

1

NON-NEGOTIABLE CHEMICAL TANK WAYBILL CTWB No.

Reference No.

Consignee (not to order)

TO ORDER

Notify address

KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND, OREGON, U.S.A

PIRST CRIBINAL

Vessel

ort of loading

**OSPREY ARROW V.122** 

KWANGYANG, KOREA

Port of discharge PORTLAND, OREGON, U.S.A

Description of cargo

Weight (in metric tone)

4,681.494 M/T

N/M IN BULK

LIQUID PITCH

- \* PURCHASE ORDER NO.: OM9-1670-1
- "FREIGHT PAYABLE AS PER CHARTER PARTY"

ON BOARD DATE: DEC.08,1999

## Particulars declared by the Shipper

Issued pursuant to Charter Party Indicated hereunder

RECEIVED on board the cargo specified above, according to Shipper's declaration in apparent good order and condition – unless otherwise stated herein – weight, volume, quality and value unknown, for delivery at the port of discharge or so near thereto as the Vessel may safely get, always afloat.

Charter Party (Code name, place and date of issue)

The cargo shipped under this Waybill will be delivered to the Party named as Consigned or its authorised agent, on production of proof of identity without any documentary formalities. The Carrier to exercise due care ensuring that delivery is made to the proper party. However, in case of incorrect delivery, no responsibility will be accepted unless due to fault or neglect on the part of the Carrier.

FOR CONDITIONS OF CARRIAGE SEE OVERLEAF.

Freight payable in accordance therewith.

Froight payable at Piece and date of issue

SEOUL, KOREA - DEC.08, 1999

Bignaturn

BARWIL HYOP WOON AGENCIES LTD. AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL

Frinso and sele by

Frinso and sele by

Frinso and sele by

Frinso and selections of the selection of the se

AWANGYANG, AUKHA PURTLAND, OREGON, COUNTY OF THE STATE OF

OSPREY ARROW

7) Sailing on / about DEC. 08, 1999

13) Description of goods

14) Quantity/Unit

15) Unit-price 16) Amount

N/M IN BULK

17) Marks and numbers of PRGS

FOB KWANGYANG KOREA

### LIQUID PITCH

4, 681. 494M/T USD242/MT USD1, 132, 921. 54

- **±** GRAVITY : 1. 26 1. 27
- \* INVOICE NO. : HVBT190064A01 DATED DEC. 08, 1999
- \* PAYMENT INSTRUCTION
  PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
  TO ACCOUNT NO. 361-81-100332 SHIN HAN BANK, SEODAEMUN BRANCH,
  SEOUL, KOREA IN FAVOUR OF DAEWOO CORP SEOUL (HVB SECTION) AND
  PLEASE INDICATE OUR REFERENCE NO. HVBT190064A01 WHEN YOU REMIT
  THIS INVOICE AMOUNT.

17) C. P. O. 2810 SEOUL, KOREA CABLE : DARWOO SEOUL

THLHX : DARWOO K23341.4, K24295

TBLBPHONB : 759-2114

18) Signed by

DAEWOO CORPORATION

" | IVBT190064A01

# ORIGINAL

DEPARTMENT OF THE TREASURY UNITED STATES CUSYOMS SERVICE 19 U. S. C. 1481, 1482, 1484

## SPECIAL CUSTOMS INVOICE

(Use separate invoice for purchased and non-purchased goods.)

Form Approved. O. M. B. No. 48-R0342

DAEWOO CORP	ORATION		2. DOCUMEN	T NR. #	HVBTI90064A01 DEC. 08, 1999			
C.P.O. BOX 2810		EA	4, REPEREN	CES .				
S. CONSIGNEE			6. BUYER (if other than consigned) KOPPERS INDUSTRIES INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A. 7. ORIGIN OF GOODS THE REPUBLIC OF KOREA					
TO ORDER								
8- NOTIFY PARTY #			<del></del>		MENT. AND DISCOU	NT		
KOPPERS INDUSTI C/O PORT OF PO PORTLAND OREG	- F.O.B. KWANGYANG, KOREA							
TO : P	OMATION + G, KOREA DREGON, U.S.A DW	• T/T REMITTANCE 45 DAYS AFTER B/L DATE						
	EC. 08, 1999		II. CURRENCY US	EED	12, ERCH. RATE 'if fixed or agreed!	13. DATE OWNER ACCEPTED		
14. MARKŠ AND NUMBERŠ ON SMIPPING PACKAGES	INUMBER OF PACKAGES	IE, FULL DESCRIP OF GOODS		17. QUANTITY	UNIT PRICE 18. HOME 10. MARKET INVOICE	INVOICE TOTALS		
N/M IN BULK ////////////////////////////////////					///Ts	·///		
I declare:  If there are any re  (A) of goods, I have ch	ebates, drawbacks on the expertation por the expertation tecked box(A) and	(B) checked box(B) and have	ox (21) and explain NT) d or agreed to be indicated in colum	sold, I have	22. PACKING COSTS 25. OCEAN OR INTERNATIONAL FREIGHT 24. DOMESTIC FREIGHT CHARGES			
itemized separately I further declare that there is differing from this one (unless below) and that all statements invoice and declaration are true	no other invoice otherwise described contained in this a and correct.	DAEWOO CO	LLER/SHIPPER(	OR AGENT):	25. INSUMANCE COSTS 26. OTHER COSTS (Specify Below)			
PS. THIS SPACE FOR CO	ZNA DNIUNITH	Author	rized Signatur	re				

THIS FORM OF INVOICE REQUIRED GENERALLY IF RATE OF DUTY BASED UPON ON REQUIRATED BY VALUE OF GOODS AND PURCHASE PRICE OR VALUE OF SHIPMENT EXCEEDS SOO OTHERWISE USE COMMERCIAL INVOICE

\* Not necessary for U. S. Customs purposes.

Later Comment

Customs Form 5515 (12-20-76)

### COMMERCIAL INVOICE

IV91204831

					13100403x				
1) Shipper/Reporter  DABWOO CORPORATIO	DHO. 4 date of invoice HVBT 190064A01 DEC. 08, 1999								
C. P. O. BOX 2810 S	EOUL KOREA	9) No. 4 date of L/C P/O NO. OM9-1670-1 DATED JAN. 25, 1999							
	<u></u>	10) L/C incuing bank							
2) For Account & Risk of Mesers.	TNC								
KOPPERS INDUSTRIE C/O PORT OF PORTL PORTLAND OREGON,	- THIS INVOICE AMOUNT SHOULD BE PA ON OR BEFORE JAN. 22, 2000								
3)Notify Party KOPPERS INDUSTRIE C/O PORT OF PORTL PORTLAND OREGON,	AND	ON OR BEF	OKB JAR	(. 22 <b>,</b> 2001	J				
4) Port of loading KWANGYANG, KORBA	Spins! destination PORTLAND, OREGON, U. S. A								
6) Carrier OSPREY ARROW	7) Sailing on / about DBC. 08, 1999								
12) Maries and numbers of PEGS	13) Description of goods	14) Quantity/D	nil	15) Unit-price	16) Amount				

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

4, 681. 494W/T

- \* GRAVITY : 1.26 1.27
- \* INVOICE NO. : HVBT190064A01 DATED DEC. 08, 1999
- \* PAYMENT INSTRUCTION
  PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
  TO ACCOUNT NO. 361-81-100332 SHIN HAN BANK, SEODAEMUN BRANCH,
  SHOUL, KOREA IN FAVOUR OF DAEWOO CORP SEOUL (HVB SECTION) AND
  PLEASE INDICATE OUR REFERENCE NO. BVBT190064A01 WHEN YOU REMIT
  THIS INVOICE AMOUNT.

17) C. P. O. 2810 SEGUL, KOREA CABLE: DAEVOO SEGUL

TELEX : DARWOO K23341. 4, K24295

TELEPHONE : 759-2114

18) Signed by

DAEWOO CORPORATION 12-13 13:51 MUN FRUM: KUSCU IHR Form No.KCC1-2 1998

> 1. Saller **ORIGINAL** DAEWOO CORPORATION C. P. O. BOX 2810 SEOUL KORBA CERTIFICATE OF ORIGIN issued by THE KOREA CHAMBER OF COMMERCE & INDUSTRY 2. Consigner Secul, Republic of Korea TO ORDER 원 산 지 증 명 서 대한상공회의소 4. Buyer (if other than consigned) KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A. 3. Particulars of Transport (where required) 5. Country of Origin The Republic of Korea FROM : KWANGYANG, KORBA : PORTLAND, ORBGON, U.S.A 6. Invoice Number and Date BY : OSPREY ARROW HVBT190064A01 ON : DEC. 08, 1999 DBC. 08, 1999

7. Shipping Marks

8. Number and Kind of Packages; Description of Goods

9. Quantity. Gross Weight or Measurement

N/M IN BULK

4,681.494M/T (QUANTITY)

#### LIQUID PITCH

GRAVITY: 1.26 - 1.27 PURCHASE ORDER NO.: OM9-1670-1

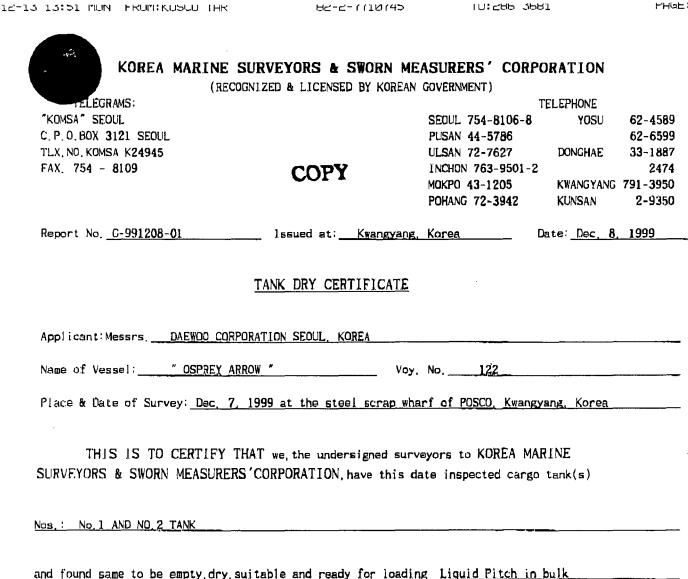
INVOICE NO. : HVBT190064A01 DATED DEC. 08, 1999

10. Other Information

The Korea Chamber of Commerce & Industry hereby certifies, on the basis of relevant invoice and other documents, that the above mentioned goods originate in the country shown in column 5.



THE KOREA CHAMBER OF COMMERCE & INDUSTRY

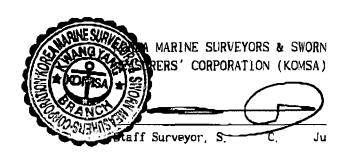


This inspection was made and certificate is given without prejudice to any question of rights and/or liabilities on any persons interested or concerned.

steam presure and found tight\_\_\_\_\_\_

Previous Cargo: First Loading

Heating coils in the following of the above inspected tank(s) are tested



### KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

TELEPHONE

"KOMSA" SEOUL

**COPY** 

SEOUL 754-8106-8 YOSU 62-4589 PUSAN 44-5786

|U:286 3681

C. P. O. BOX 3121 SEOUL TLX, NO, KOMSA K24945

62-6599

ULSAN 72-7627

KWANGYANG 791-3950

### **SURVEY REPORT**

(Sampling and Analysis Certificate)

Report No. <u>C-991208-01-A</u>

1ssued at: Kwangyang Korea

Date: <u>Dec. 8, 1999</u>

THIS IS TO CERTIFY THAT we, the undersigned Korea Marine Surveyors & Sworn Measurers Corporation, Kwangyang did at the request of Messrs. <u>DAEWOO CORPORATION SCOUL, KOREA</u>

attend at the laboratory in the premises of the manufacturer

in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:

### DESCRIPTION

Name of Carrier: " OSPREY ARROW" : Liquid Pitch in bulk Commodity Quantity : 4,681.494 M/Tons

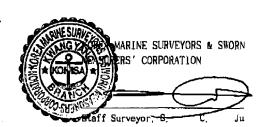
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

### SAMPLING/ANALYSIS

The analysis for the above samples was carried out on attendance of the undersigned, the Coneral Marine Surveyor, at the laboratory in the premises of the manufacturer on Dec. 8, 1999 and resulted as follows:

TEST ITEM & UNIT	SPEC.	<u>RESULTS</u>	<u>METHOD</u>
SOFTENING POINT(*C)	108~112	111,0	ASTM D 3104-87
QUINOLINE INSOLUBLE(%)	8~12	9,8	ASTM D 2318-86
TOLUENE INSOLUBLE(%)	28 MIN.	28. 2	ASTM D 4072-91
COKING VALUE(%)	55.0 MIN.	59.8	ASTM D 2416-84
DISTILLATION TO 360 C(*)	3,0 MAX.	0.81	ASTM D 20-91
SPECIFIC GRAVITY(g/cm3)	1.31 MIN.	1.320	ASTM D 2320-81
ASH(≈)	0.30 MAX.	0,10	ASTM D 2415-66
SOD(UM(ppm)	220 MAX.	63	A, A, METHOD
MOTSTURE(%)	0.30 MAX.	0.1	ASTM D 95-83
MESOPHASE(<10 μm)(%)	2.0 MAX.	0.13	ASTM D 4616-91

This report is given without prejudice.



### KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL

TLX, NO, KOMSA K24945 FAX. 754 - 8109

COPY

TELEPHONE

SEOUL 754-8106-8

YOSU 62-4589

DONGHAE

ULSAN 72-7627

33-1887

INCHON 763-9501-2

2474

SURVEY REPORT

MOKPO 43-1205

KWANGYANG 761-3950

(Liquid Gauging of Tankers)

Report No. <u>G-991208-01-B</u> Applicant:

DAEWOO CORPORATION\_SECUL, KOREA

Name of Vessel:

Gross tonnage:

" OSPREY ARROW "

Port from and to: Kwangyang, Korea to Portland, Oregon, U.S.A

Place & Date of Survey: Dec. 8, 1999 at the steel scrap wharf of POSCO, Kwangyang, Korea

Description of cargo

Quantity on Invoice/B/L

<u>Density</u>

Date <u>Dec. 8, 1999</u>

Remarks

Liquid Pitch in bulk

4,681.494 M/Tons

1.2332

204.2 ℃

We hereby certify that the following figures are correct to our best knowledge, based on the Tank Scales provided on board.

Tank No.	Gauging (UII.)	Corrected (Ull.)	Water	App, Volume (K/L)	<u>Temp</u> (℃)	Density	<u>Net Volume</u> (M/T
No. 1 No. 2 TOTAL :	2, 080 2, 089 2 TANKS	<u>-</u>	-	3,722,280 3,317,530	204.2 204.2	1.2332 1.2332	4,590,316 4,091,178 8,681,494 M/
į.							
	Remarks :	•	_	tity were dist ch are as foll		pased on th	e portion of
	Remarks :	•	gures whi	•	ows: -	4, 681, 494	M/Tons
	Remarks :	•	gures whi	ch are as foll	ows: -	4, 681, 494	M/Tons

That is

FOUR THOUSAND SIX HUNDRED AND EIGHTY ONE DECIMAL FOUR NINE FOUR (4,681,494)M/TONS.

Ship's Draft: Fore 6,700 m

After 8.200 m

Trim 1,500 m by the stern

A MARINE SURVEYORS & MEASURERS 'CORPORATION

Staff Surveyor,

Ju

|U:286 3681

### KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN COVERNMENT)

Report No. <u>G-991208-01-C</u>

Issued at: Kwangyang Korea

Date: Dec. 8, 1999

### COPY SURVEY REPORT

( Certificate of Sampling )

THIS IS TO CERTIFY THAT WE, the undersigned surveyor to Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang, Korea, did, at the request of Messrs, DAEWOO CORPORATION SECUL, KOREA attend at the tank of manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:-

### DESCRIPTION

Name of Carrier

: " OSPREY ARROW "

Voy. No. : 122

Commodity

: Liquid Pitch in bulk

B/L Quantity

: 4,681.494 M/Tons

Port from/to

: Kwangyang, Korea to Portland, Oregon, U.S.A

#### SAMPLING

Attending at the above mentioned place in company with parties concerned, the undersigned inspected sampling cans furnished by the applicant and found them cleaned and dry and then samples were taken in accordance with sampling method and plugged immediately/tightly by the undersigned surveyor.

COMPONENT

QUANTITY

DISTRIBUTED

BASED ON

3 Cans

One(1) can retained by this corporation.

LSO STANDARD

One(1) can to laboratory for analysis.

6257-1980(E)

One(1) can on board a plane for receiver at destination,

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.

MARINE SURVEYORS & SWORN
NAME OF THE SURVEYORS AS SWORN
OF THE SURVEYORS AS SWORN
OF THE SURVEYOR AS SWORN

Surveyor, S. C.

### KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-991208-01-D

Issued at: Kwangyang, Korea

Date: Dec. 8, 1999

1U:८४b ᲐᲮᲧ1

### COPY

### CERTIFICATE OF CARGO LOADING BY TANK

I hereby certify that, as the result of reading of the level gauge for the subject cargo and calculation of each tank on board the M.V "OSPREY ARROW", the following quantities of Liquid Pitch were found to be loaded into the tanks as shown below:-

No. 1 Tank

: 4,590,316 M/Tons

No. 2 Tank

: 91 178 M/Tons

Total : 2 Tanks

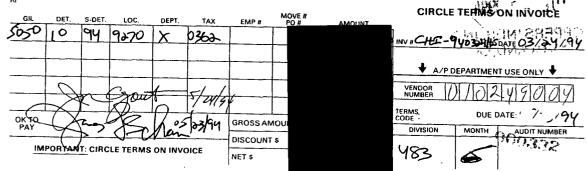
4,681,494 M/Tons

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.

> REA MARINE SURVEYORS & SWORN ERS' CORPORATION(KOMSA) Surveyor, ~

### COMMERCIAL INVOICE

Invoice No. and Date GENERAL EXPORTER, IMPORTER & MANUFACTURER CHI-940324HJ DATED MAR. 24, 1994 SsangYong Corporation L/C No. and Date PURCHASE ORDER NO. OM4-1670-2 24-1,2-ga.Jeo-dong,Jung-gu,Seouf 100-748, DATED MAR. 22, 1994 Korea Central P.O.Box 409 Buyer (if other than consignee)
KOPPERS INDUSTRIES, INC. Consignee 436 SEVENTH AVENUE PITTSBURGH, PA 15219 UNITED STATES OF AMERICA TO ORDER Other References Departure Date MAR. 30, 1994 Vessel/Flight Terms of delivery and payment MV. OCEAN CROWN POHANG, KOREA CIF, PORT OF PORTLAND DUE DATE: MAY 28, 1994 PORT OF PORTLAND, U.S.A. No. & Kind of Pkgs: Goods Description Shipping marks Quantity Unit Price. Amount COAL TAR PENCIL PITCH CIF, PORT OF PORTLAND N/M IN BULK 6,000 METRIC TONS \* SAY : US DOLLARS ONE MILLION TWO HUNDRED NINETY THOUSAND ONLY \* PAYMENT INSTRUCTION : PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER TO HANIL BANK H.O'S ACCOUNT NO. 10952822 WITH CITIBANK NEW YORK 111 WALL STREET 16FL. NEW YORK 10043, U.S.A. IN FAVOUR OF SSANGYONG CORPORATION (CHEMICAL SECTION 1). SEOUL, KORFA.
AND PLEASE INDICATE OUR REFERENCE NO. HO404005524-3305 WHEN YOU REMIT THIS INVOICE AMOUNT. DUSTRIES.x/x/x/x/x/x/x/x/x/x x/x/x/x/x/x/xKIM Manager Chemical Sec. 1 CIRCLE TERMS ON INVOICE MOVE #



# RECEIVED

JUL - 5 1994

KOPPERSINDS, INC. PORTLAND, OR

COMMERCI	AL INVOICE
Seller GENERAL EXPORTER, IMPORTER & MANUFACTURER	Invoice No. and Date CHI-931019/1HJ DATED OCT. 30, 1993
SsangYong Corporation 24-1,2-ga.Jeo-dong,Jung-gu.Seoul 100-748, Korea Central P.O.Box 409	L/C No. and Date PURCHASE ORDER NO. OM3-1670-4 DATED SEPT. 28, 1993
Consignee.  TO ORDER	Buyer (if other than consignee) KOPPERS INDUSTRIES, INC. 436 SEVENTH AVENUE PITTSBURGH, PA 15219 UNITED STATES OF AMERICA
	Other References  No: 01940701  Sate: 1-10-94  Ref 3688
Departure Date OCT. 30, 1993	Verby FRAN
Vessel/Flight From POHANG, KOREA  To PORT OF PORTLAND, U.S.A.	Terms of delivery and payment  CIF, PORT OF PORTLAND  DUE DATE: JANUARY 10, 1994
Shipping marks No. & Kind of Pkgs: Good	ds Description Quantity. Unit Price Amount
	CIF, PORT OF PORTLAND  METRIC TONS  U  RS ONE MILLION SEVEN HUNDRED FORTY FOUR
- TO KOREA FIRST WITH CITIBANK A 10043, U.S.A. IN FAVOUR OF SS SEOUL, KOREA. AND PLEASE INDI	TION: S INVOICE AMOUNT BY TELEGRAPHIC TRANSFER BANK H.O'S ACCOUNT NO. 10952953 N.A. 111 WALL STREET, NEW YORK N.Y.  SANGYONG CORPORATION (CHEMICAL SECTION 1).  ICATE OUR REFERENCE NO. NAO52K312O615 THIS INVOICE AMOUNT.
x/x/x/x/x/x/x/	x/x/x/x/x/x
WIFE TRANSFER  CITIBANK NYC, NY #02	
, , , , ,	MANAGER CHRMICAL SEC 1.

DEPT. TAX INV #CHI-931019/1 HSDATE 10/30/93 0362 ♣ A/P DEPARTMENT USE ONLY ♣ VENDOR NUMBER 010245004 TERMS, CODE DIVISION DUE DATE: 1. //0/94 12/22/93 GROSS AMOUN MONTH AUDIT NUMBER DISCOUNT \$ 483 IMPORTANT: CIRCLE TERMS ON INVOICE NET \$

RECEIVED

JAN 3 1 1994

KOPPERS INDS., INC. PORTLAND, OR

## RECEIVED

KOPPERS COAL TAR PRODUCTS PTY LTD

A.C.N. 003 947 699 Woodstock Street, Mayfield .N.S.W.

AUG 24 1993

P.O. Box 23,

Mayfield. N.S.W. 2304

KOPPERS INDS., INC. PORTLAND, OR

Australia.

KOPPERS INDUSTRIES, INC. WINE TRANSFER

Telephone: 61 49 674777

Fax: 61 49 674998

NO. 0893 080/

INVOICE NO:

DATE:

15th July, 1993

DATE 8-17-93 

GOODS: SHIPPED PER: Hard Pitch "SOCOFL STAR" VERIFILD BY FRAN

LOADING:

Ex Dalian, China on 1st July,1993

DISCHARGE: FOR ACCOUNT & RISK OF Portland (Oregon) USA

Koppers Industries Incorporated

1750 Koppers Building Pittsburgh, Pa. 15219

USA

6357

ORDER NO.

OM3-1670-3

**QUANTITY & DESCRIPTION** 

**UNIT PRICE USD/METRIC TONNE**  FOB PORTLAND USD

5260 M/T Hard Pitch Add Ocean Freight



Mettler Softening Point: Fractional Distillation:

Quinoline Insoluble:

Moisture:

110.3 C (ASTM D3104) 3.0% (ASTM D2569)

3.8% (ASTM D2318) 0.4% (ASTM D95)

PACKING:

In Bulk

**PAYMENT:** 

30 Days After Receipt of Goods to our bank account as follows:

belaste sed of who

Commonwealth Bank of Australia

due 8/22/93

SYDNEY N.S.W. AUSTRALIA Refer Trade Finance FX

FOR AND ON BEHALF OF COAL TAR PRODUCTS PTY LTD

well gay 8/17/93

UK for descussion

AUC 1 0 1993

GIL DET. S.DET. LOC. DEPT. TAX	EMP#	MOVE# PO#	AMOUNT	CIRCLE	TERMS	ON INVOICE
5050 9 93/9270 6362			1,083,520-	INV# 635	7	DATE 7/15/3
				<b>♦</b> A/P[	EPARTMEN	IT USE ONLY 🖶
Jack 6/17/93				VENDOR NUMBER TERMS.	2001	124000
OK TO Johns Johns 10193	GROSS AM	<del></del>	1,083,560 -	CODE	MONTH	DATE:08/17/93
IMPORTANT: CIRCLE TERMS ON INVOICE	DISCOUNT :	ş 	1,083560	483	8	00193

### Facsimile Transmission From Fax Nº. 67 4998

Date:

11 August 1993

James L. Schaum

Koppers Coal Tar Products Pty Limited

A.C.N. 003 947 699 Woodstock Street, Mayfield

P.O. Box 23, Mayfield, N.S.W. 2304

Telephone: 674777 Facsimile: 674998 Controller, Tar Products K.1750 Country Code: 61

Area Code - within Australia: 049

from overseas: 49

Company:

Attention:

Koppers Industries Inc.

Telex: 28223

Fax Nº.:

0011-1-412-227-2022

From:

Graeme Wirrell

SUBJECT:

Our Invoice No. 6357 - USD1,083,560.00 re Pitch ex China

per MV "Socoft Star" July 1993.

As we have a trust receipt maturing 18th August 1993, could you please advise if payment of our invoice number 6357 for USD1,083,560.00 can be made prior to this date. We note from Walter Turner's recent fax that the ship was unloaded on the 19th July.

Bank information is as follows:

Account Name:

Commonwealth Bank Sydney (in favour & of Koppers Coal Tar Products Pty Ltd)

Bank:

Commonwealth Bank of Australia \_ ABA

18th Floor

599 Lexington Avenue New York NY 10022

Account Nº .:

1000164086

ABA Code:

902

Chips:

4271

We would appreciate it if the total amount of USD1,083,560.00 is remitted to this account with your covering fax advising us of same. Thanking you in anticipation.

Regards.

Graeme Wirrell

Koppers003916

## **KOPPERS**

### Purchase Order

SUHITOMO CORPORATION OF AMERICA

To One California Street

Suite 2300

San Francisco, CA 94111

poled iles las.

**DIVISION PROCUREMENT COPY** 

Date November 19, 1992

Order No. 0113-1670-1

Sheet #1 (Sheet 1)

Continued on sheet

This order number must be shown on all shipments, invoices, correspondence, etc.

### Invoice Instructions:

SEND ORIGINAL AND DUPLICATE COPY OF INVOICE TO RECEIVING PLANT IN ENVELOPE MARKED "ATTENTION: ACCOUNTS PAYABLE". SHOW ABOVE ORDER NUMBER ON INVOICE. LIST EACH SHIPMENT SEPARATELY.

Koppers requests that Seller furnish the goods and/or services listed below, subject to the terms on the face and reverse side of this order.

#### Ship To:

KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND Portland, Oregon U.S.A.

Requisition No.	Inquiry No.		Account No.				
Quantity	Description						
		COAL TAR PENCII	L PITCH				
HE		O "KOPPERS COMPANY, INC." ON THE FRONT OR REVERSE SIDE  NY ATTACHMENT, MUST BE CONSIDERED AS BEING "KOPPERS  ""					
	ECIFIC ATTENTION MUST B THE BODY OF THIS ORDER		SSES AND INSTRUCTIONS CONTAINED RINTED.				
Quantity: 6,0	000 Metric Tons + or -	5%					
Price:	per Metric Ton, C	IF Port of Portl	and				
Source: Kar	vasaki Steel						
Specification:	Quinoline Insoluble Toluene Insoluble Beta Resin Coking Value Specific Gravity Distillation to 360'C Ash Iron Silicon Sulfur Sodium Hoisture	ASTM D 4072 TI-QI ASTM D 2416 ASTM D 2320 ASTM D 20 ASTM D 2415  ASTM D 95	S-12% prefer 10-12% 28% min. 16% min. 54% min.				

#### Order Distribution:

D. N. Sweet - K-1750 J. L. Schaum - K-1750 Traffic Dept. - K-2050 W. W. Turner - K-1601

P. A. Stadel - U-PARC

J. Oxford - Portland Plant

L. F. Flaherty - K-1750 K. J. Regel - K-1600 KOPPERS COMPANY, INC. TAR AND WOOD PRODUCTS SECTOR 1750 KOPPERS BLDG. PITTSBURGH, PA. 15219

## **KOPPERS**

### Purchase Order

SUMITOMO CORPORATION OF AMERICA To One California Street Suite 2300 San Francisco, CA 94111

DIVISION PROCUREMENT COPY

November 19, 1992 Date OM3-1670-1 Order No. #1 (Sheet 2) Sheet

Continued on sheet

This order number must be shown on all shipments, invoices, correspondence, etc.

### Invoice Instructions:

SEND ORIGINAL AND DUPLICATE COPY OF INVOICE TO RECEIVING PLANT IN ENVELOPE MARKED "ATTENTION: ACCOUNTS PAYABLE". SHOW ABOVE ORDER NUMBER ON INVOICE, LIST EACH SHIPMENT SEPARATELY.

subject to the terms on the face and reverse side of this order. Ship To: KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND

Koppers requests that Seller furnish the goods and/or services listed below,

Portland, Oregon

U.S.A.

Requisition No.	·	Inquiry No.		Account No.			
Quantity		, De	scription				
		COAL TAR	PENCIL PIT	TCH			
	A pre-shipment sample shall be airmailed to Koppers Industries, Inc UPARC, 1005 William Pitt Way, Pittsburgh, PA 15238, Attn: Paul Stadel.						
Delivery:	To arrive Port of	f Portland about J.	anuary 13-1	4, 1993 <sup>.</sup>			
		Sailing date and E Ol Koppers Building		notice to gh, PA 15219 (Telex			
Documentatio	b. Bill of party ori c. Copy of i	charter party. Lading which will I	s of mater	ial should be			
.,.		•					
	•						
	·						
WWT:rs	KOPPERS IS ENT COMMERCIAL COD	TITLED TO ALL REHER	les pursual	NT TO THE UNIFORM			

Order Distribution:

KÖPPERS COMPANY, INC.
TAR AND WOOD PRODUCTS SECTOR
1750 KOPPERS BLDG.
PITTSBURGH, PA. 15219

## **KOPPERS**

### Purchase Order

DIVISION PROCUREMENT COPY

KAP (U.K.) Limited
 ToC1-Post Office Box 23
 Mayfield NSW 2304

Australia

Attention: John Crawford

Koppers requests that Seller furnish the goods and/or services listed below, subject to the terms on the face and reverse side of this order.

#### Ship To:

ĩ-

KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND Portland, Oregon U.S.A. Date December 11, 1991

Order No. OM2-1670-1 Sheet #1 (Sheet 1)

Continued on sheet

This order number must be shown on all shipments, invoices, correspondence, etc.

#### Invoice Instructions:

SEND ORIGINAL AND DUPLICATE COPY OF INVOICE TO RECEIVING PLANT IN ENVELOPE MARKED "ATTENTION: ACCOUNTS PAYABLE". SHOW ABOVE ORDER NUMBER ON INVOICE. LIST EACH SHIPMENT SEPARATELY.

Requisition No.		Inquiry No.		Account No.				
			•					
Quantity		L	Description					
		9	COAL TAR PENCIL I	PITCH				
	ANY REFERENCE TO HEREOF, OR ON ANY INDUSTRIES, INC.'	NY REFERENCE TO "KOPPERS COMPANY, INC." ON THE FRONT OR REVERSE SIDE EREOF, OR ON ANY ATTACHMENT, MUST BE CONSIDERED AS BEING "KOPPERS NDUSTRIES, INC."						
	SPECIFIC ATTENTION THE BODY OF TE	ON HUST BE	GIVEN TO ADDRESS NOT THOSE PREPRI	ES AND INSTRUCTIONS CONTAINED NIED.				
Quantity:	2000 Metric Tons	(not to e	xceed 6000 metri	c tons per shipment)				
rice:	Shor	t Ton, F.O.	.B. Vessel, Port	of Portland				
Source:	Anshan, China	•	•					
pecificatio	Coking Value Specific Grav Distillation Ash Sodium *Moisture All material level of 52 m Koppers Indus	uble oluble ity to 360°C must meet t inimum. A tries, Inc.	ASTM D 2569 ASTM D 2415  the above specific pre-shipment san	108-113 20% minimum 3 1/2 - 8 (prefer 5% minimum) 52% minimum 1.30% minimum 5% maximum (prefer 3% maximum) 0.25% maximum 250 PPM maximum 0.50% maximum iation with a preferred QI uple shall be airmailed to Filliam Pitt Way, iel.				
·	*0.5% maximum	does not in	fer an average m	noisture content				
Order Dietril		DE/						

#### Order Distribution:

D. N. Sweet - K-1750 J. L. Schaum - K-1750. Traffic Dept. - K-2050 J. Oxford - Portland Plant K. J. Regel - K-1601 'ILVEIVED

W. W. Turner - K-1601
Paul Stadel - U-PARC
John Crawford - KAP
PPERS INDS. INC. L. F. Flaherty - K-17

KOPPERS INDS., INC.L. F. Flaherty - K-1750 PORTLAND. OR

T-226 Rev. 15m 4-87

KOFPERS COMPANY, INC. TAR AND WOOD PRODUCTS SECTOR 1750 KOPPERS BLDG. PITTSBURGH, PA. 15219

## **KOPPERS**

### **Purchase Order**

**DIVISION PROCUREMENT COPY** 

Date

December 11, 1991

Order No.

0M2-1670-1

Sheet

#1 (Sheet 2)

Continued on sheet

This order number must be shown on all shipments, invoices, correspondence, etc.

Invoice Instructions:

SEND ORIGINAL AND DUPLICATE COPY OF INVOICE TO RECEIVING PLANT IN ENVELOPE MARKED "ATTENTION: ACCOUNTS PAYABLE". SHOW ABOVE ORDER NUMBER ON INVOICE. LIST EACH SHIPMENT SEPARATELY.

### KAP (U.K.) Limited C1-Post Office Box 23 Mayfield NSW 2304 Australia Attention: John Crawford

Koppers requests that Seller furnish the goods and/or services listed below, subject to the terms on the face and reverse side of this order.

Ship To:

KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND Portland, Oregon U.S.A.

Requisition No.		Inquiry No.		Account No.			
		·					
Quantity	· · · · · · · · · · · · · · · · · · ·						
			TAR PENCIL P				
Delivery:	mid-July. Will	. confirm the July	vessel no	y 15 and one vessel about later than May 15, 1992.			
	(Notification: Sailing date and ETA, 72 hour notice to W. W. Turner, 1601 Koppers Building, Pittsburgh, PA 15219 (Telex 402337)						
Documentat	b. Bill of party o	charter party. lading which wil riginator.					
	c. Copy of mailed	invoice and analy when material is	ysis of mate loaded into	vessel			
•							
WWT:rs	KOPPERS IS E COMMERCIAL C		ÆDIES PURSU	ANT TO THE UNIFORM			

Order Distribution:.

man chow

}ent By: Carbon Management, Inc.;



## CARBON MANAGEMENT INC.

Liberty Court, Suite 400, Box 7, 260 Highway 202 and 31, Flemington, NJ 08822

December 6, 1999

Copies to:

Dec-6-99 2:36PM;

Wayne Plovic - 1650

Jim Dietz - 1650 Drew Bachman - 1600 Chuck Kraynik - 1600

Don Evans - 1600

Amos Kamerer - Portland File: Carbon Management

KOPPERS INDUSTRIES, INC.

Mr. Kevin J. Fitzgerald 436 Seventh Avenue Pittsburgh, Pa 15219-1800

### Dear Kevin:

Per our conversation last week, Reilly Industries is able to provide 1,000 MT of Anshan coal tar pitch for delivery in late January 2000. The pitch would be delivered by truck to your melter in Portland. Pricing for this shipment would be delivered to Portland. The price increase is necessary to offset increased unloading costs at the Port of Longview as well as additional costs to reduce the dust generated in loading the cargo in China. If this proposal is acceptable to you please signify your acceptance by signing below and returning to me via fax at 908-806-9398. If you have any questions you can contact me at 908-806-9395.

Best Regards,

Stephen Brooks

In agreement,

Phone: (908) 806-9395 • (908) 806-9396 • Fax; (908) 806-9398 • E-mail: CarbonManagement@worldnet.att.net

\_Koppers003922

### DC Chemical Co., Ltd.

4<sup>th</sup> Floor, Oriental Chemical BLDG., 50 Sokong-Dong, Chung-Gu, Seoul Korea TEL: 82 2 7279 500 FAX: 82 2 771 0745

## ADVICE OF SHIPMENT

KOPPERS INC.

7540 NW SAINT HELENS ROAD, PORTLAND, OREGON 97210-3663

TEL: 503-286-3681

FAX: 503-285-2831

ATTN: MR. AMOS KAMERER

DATE: APR. 15, 2003

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS;

▶ INVOICE NO.

: 0000076293 DATED APR. 07, 2003

**▶** QUANTITY

: 2,251.760MT OF LIQUID PITCH

► AMOUNT

: US\$484,128.40

► ON BOARD DATE

: APR. 06, 2003

▶ DUE DATE

: MAY 20, 2003

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE MAY 20, 2003 TO THE BANK AND ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

**▶ VESSEL NAME** 

: M/V "OSPREY ARROW 142"

FROM POHANG KOREA, TO PORTLAND, OREGON, U.S.A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HEREWITH;

1. COMMERCIAL INVOICE

: 3 ORIGINALS

2. CUSTOMS INVOICE

: 3 ORIGINALS

K H JEE

SENIOR MANAGER

DC CHEMICAL CO., LTD

CONFIDENTIAL

Koppers003923

1 set to Kunkle

### **COMMERCIAL INVOICE**

HVE0000043174

1)Shipper/Exporter DAEWOO INTERNATIONA	AL CORPORATION	8)No. & date o		APR	. 07, 2003	
C.P.O. BOX 2810 SEOUL, KOREA		9)No. & date o	of L/C			
2)For Account & Risk of Messrs. KOPPERS INC.		10)L/C issuing	j bank			
C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		11)Remarks:  * THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE MAY 20, 2003				
3)Notify Party KOPPERS INC. C/O PORT OF PORTLAI PORTLAND OREGON, U						
4)Port of Loading POHANG, KOREA	5)Final destination PORTLAND, OREGON, U.S.A.					
6)Vessel OSPREY ARROW V.142	7)Sailing on / about APR. 06, 2003			·		
12)Marks and numbers of PKGS	13)Description of goods		14)Quantity/Unit	15)Unit-price	16)Amount	

FOB POHANG, KOREA -

N/M IN BULK

### LIQUID PITCH

- \* PURCHASE ORDER NO. OM3-1670-1
- \* PAYMENT INSTRUCTION

PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T) TO ACCOUNT NO.141-86-000281 OF KOREA FIRST BANK NAMSAN BRANCH. SEOUL, KOREA IN FAVOUR OF DAEWOO INTERNATIONAL CORPORATION. CHEMICAL TEAM 5 AND PLEASE INDICATE YOUR REFERENCE NO. IP 2003/01 WHEN YOU REMIT THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA CABLE: DAEWOO SEOUL

TELEX: DAEWOO K23341/4, K24295

**TELEPHONE: 759-2114** 

18) Signed by

INTERNATIONAL CORP

### **COMMERCIAL INVOICE**

HVE0000043174

1)Shipper/Exporter DAEWOO INTERNATION	AL CORPORATION	8)No. & date of invoice 0000076293	APR. 07, 2003			
C.P.O. BOX 2810 SEC	C.P.O. BOX 2810 SEOUL, KOREA					
2)For Account & Risk of Messrs.  KOPPERS INC.  C/O PORT OF PORTLAND  PORTLAND OREGON, U.S.A.		10)L/C issuing bank				
		11)Remarks:  * THIS INVOICE AMO ON OR BEFORE MAY	UNT SHOULD BE PAID 20, 2003			
3)Notify Party KOPPERS INC. C/O PORT OF PORTLAI PORTLAND OREGON, U						
4)Port of Loading POHANG, KOREA	5)Final destination PORTLAND, OREGON, U.S.A.					
6)Vessel OSPREY ARROW V.142	7)Sailing on / about APR. 06, 2003					
12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit	15)Unit-price 16)Amount			

- FOB POHANG, KOREA -

N/M IN BULK

LIQUID PITCH

- \* PURCHASE ORDER NO. OM3-1670-1
- \* PAYMENT INSTRUCTION

PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T) TO ACCOUNT NO.141-86-000281 OF KOREA FIRST BANK NAMSAN BRANCH. SEOUL, KOREA IN FAVOUR OF DAEWOO INTERNATIONAL CORPORATION. CHEMICAL TEAM 5 AND PLEASE INDICATE YOUR REFERENCE NO. IP 2003/01 WHEN YOU REMIT THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA CABLE: DAEWOO SEOUL TELEX: DAEWOO K23341/4, K24295

TELEPHONE: 759-2114

18) Signed by

INTERNATIONAL CORP

CONFIDENTIAL

Koppers003925

## DEPARTMENT OF THE TREASURY UNITED STATES CUSTOMS SERVICE

### SPECIAL CUSTOMS INVOICE

Form	Appr	roved.	
		48-R0:	34

19 U. S. (	2. 1481, 1482, 1484		(Use separate invoic	e for purchased and nor	n-purchased goods	.)		), M. B. No. 48-R034
1 SELLE		NATIONAL CORP	ORATION	2. DOCUMENT NR.	•	3. INVOICE NR. AND DATE* 0000076293		
	C.P.O. BOX 2	810 SEOUL, KO	REA	4. REFERENCES*				
* •				PURCHASE	ORDER NO.	OM3-16	70 - 1	
5. CONSIG	NEE	·		6. BUYER(if other	than consignae)			
5. CONSIG	KOPPERS INC.			KOPPERS	_			
,	C/O PORT OF I	PORTLAND		C/O PORT	OF PORTLA	ND		
	PORTLAND ORE	GON, U.S.A.		PORTLAND	OREGON, U	I.S.A.		
				7. ORIGIN OF GOOD				
8. NOTIFY	PARTY*			9. TERMS OF SALI	BLIC OF KO			·
	KOPPERS INC. C/O PORT OF I PORTLAND ORE					Discool		
10. ADDIT	IONAL TRANSPORTAT	ION INFORMATION*		~				
	FROM :	POHANG, KORE	Δ	- FOR PO	HANG, KORE			
		PORTLAND, OR			MITTANCE 4		FROM B/L	DATE
		OSPREY ARROW APR. 06, 200		11. CURRENCY USED		12. EXCH. RAT	Elif fixed or agreed)	13. DATE ORDER ACCEPT
	14.	15.	16		17	LINUT	DDIOE	30
MARKS	AND NUMBERS ON PING PACKAGES	NUMBER OF PACKAGES	16. FULL DESCRIPTI OF GOODS	ON	17. QUANTITY		PRICE 19. INVOICE	20. INVOICE TOTALS
		rnormaze		*******		MARKET		
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			LIQUID PITCH					
	N/M IN	<b>!</b>						
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2. 🗖	f the production of the	se goods involved furn	ishing goods or services to the sell	er(e.g., assists such a	s dies, molds,	OO DACK!	L COSTS	
21	<del> </del>	<del></del>	cluded in the invoice price, check bo		v.		NG COSTS	
I declare:	27.	DECLARATION OF	SELLER/SHIPPER(OR AGEN	T)		INTERN	EAN OR IATIONAL	
, Tif	there are any rebates		If the goods were not sold o				MESTIC	
اہ لــا ```	ounties allowed upon the goods, I have checked	box(A) and	box (B) and have indicated in willing to receive.	column 19 the price 1	would be	1	CHARGES	
	emized separately belov						URANCE	
differing fr	declare that there is no rom this one (unless oth	erwise described	(C) SIGNATURE OF SELI	LER/SHIPPER(OR	AGENT):	<del></del>	OSTS	
	that all statements cont declaration are true a		DAEWOO II	VITERNATIONAL	COBB		ER COSTS fy Below)	
28. THIS S	PACE FOR CONTINUIN	IG ANSWERS	1				· · · · · · · · · · · · · · · · · · ·	<del></del>
			,	C.M.			*	
				The state of the s				

<sup>\*</sup>Not necessary for U.S. Customs purposes.

DEPARTMENT OF THE TREASURY UNITED STATES CUSTOMS SERVICE 19 U. S. C. 1481, 1482, 1484

### SPECIAL CUSTOMS INVOICE

(Use separate invoice for purchased and non-purchased goods.)

Form Approved. O. M. B. No. 48-R0342

1. SELLE		NATIONAL CORP	ODATION	2. DOCUMENT NR.* 3. INVOICE NR. AND DATE* 0000076293		ATE!		
	- · · · - · · · - · · · - · · ·	810 SEOUL, KO		4. REFERENCES*  PURCHASE ORDER NO. 0M3-1670-1				
* -	·							
5. CONSIGNEE KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.			6. BUYER(if other than consignee) KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A. 7. ORIGIN OF GOODS					
8. NOTIFY	/ PARTY*  KOPPERS INC.  C/O PORT OF I  PORTLAND ORE			9. TERMS OF SAL	JBLIC OF KO .E. PAYMENT. AN		т	
	<u>.                                    </u>	•						·
10. ADDIT	TO : CARRIER :	POHANG, KORE PORTLAND, OR OSPREY ARROW	A EGON, U.S.A. V.142		DHANG, KORE EMITTANCE 4	5 DAYS F		DATE
	<u> </u>	APR. 06, 200						
MARKS	14. 5 AND NUMBERS ON PPING PACKAGES	15. NUMBER OF PACKAGES	16. FULL DESCRIPTI, OF GOODS	ON	17. QUANTITY	18. HOME MARKET	19, INVOICE	20. INVOICE TOTALS
			LIQUID PITCH				////////	///////////////////////////////////////
			ishing goods or services to the sell- icluded in the invoice price, check bo			22. PACKIN	NG COSTS	
27. DECLARATION OF SELLER/SHIPPER(OR AGENT I declare:  (A) If there are any rebates, drawbacks or bounties allowed upon the exportation of goods, I have checked box(A) and itemized separately below.  (B) If the goods were not sold or box (B) and have indicated in willing to receive.			or agreed to be sold, I have checked n column 19 the price I would be		23. OCEAN OR INTERNATIONAL FREIGHT 24. DOMESTIC FREIGHT CHARGES 25. INSURANCE COSTS			
differing f below) and	rom this one (unless oth that all statements cond d declaration are true a	nerwise described tained in this	(C) SIGNATURE OF SELL DAEWOO IN	LER/SHIPPER(OR FERNATIONAL (	CORP.	i .	ER COSTS	
28. THIS S	SPACE FOR CONTINUIN	IG ANSWERS	Citizen A	uthorized Signatu	ILS.			·

DC Chemical Co., Ltd.

4th Floor, Oriental Chemical BLDG., 50 Sokong-Dong, Chung-Gu, Seoul Korea TEL: 82 2 7279 500 FAX: 82 2 771 0745

## ADVICE OF SHIPMENT

KOPPERS INC.

7540 NW SAINT HELENS ROAD. PORTLAND, OREGON 97210-3663

TEL: 503-286-3681 FAX: 503-285-2831

ATTN: MR. AMOS KAMERER

DATE: APR. 11, 2003

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS;

▶ INVOICE NO.

: 0000076293 DATED APR. 07, 2003

**▶ QUANTITY** 

: 2,251.760MT OF LIQUID PITCH

► AMOUNT

► ON BOARD DATE

: APR. 06, 2003

**▶** DUE DATE

: MAY 20, 2003

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE MAY 20, 2003 TO THE BANK AND ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

► VESSEL NAME

: M/V "OSPREY ARROW 142"

▶ FROM POHANG KOREA, TO PORTLAND, OREGON, U.S.A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HEREWITH;

1. BILL OF LADING

: 2 ORIGINALS + 2COPIES

1 Set to tonk

2. COMMERCIAL INVOICE

: 3 ORIGINALS

3. CUSTOMS INVOICE

: 3 ORIGINALS

4. CERTIFICATE OF ORIGIN

: 1 ORIGINAL + 1COPY

5. CERTIFICATE OF ANALYSIS

: 3 ORIGINALS

6. CERTIFICATE OF WEIGHT

: 3 ORIGINALS

: 3 ORIGINALS

7. CERTIFICATE OF VESSEL CLEANLINESS

SENIOR MANAGER

DC CHEMICAL CO., LTD

CONFIDENTIAL Koppers003928

CODE NAME: "CHEMTANKWAYBILL 85"		
DAEWOO INTERNATIONAL CORPORATION C.P.O. BOX 2810 SEOUL, KOREA	NON-NEGOTIABLE CHEMICAL TANK WAYBILL	CTWSPN42KPO02W Reference No.
Consignee (not to order)	<u>-</u>	
KOPPERS INC.	•	
C/O PORT OF PORTLAND		
PORTLAND OREGON, U.S.A.		
Notify address  KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.	<u> </u>	
OSPREY ARROW V.142  Port of loading POHANG, KOREA	_	
Port of discharge PORTLAND, OREGON, U.S.A	<del></del>	
Description of cargo	4.	Weight (in metric tons)

N/M IN BULK

LIQUID PITCH

2,251.760 M/T

\* PURCHASE ORDER NO. OM3-1670-1

" FREIGHT PAYABLE AS PER CHARTER PARTY "

ON BOARD DATE: APR.06, 2003

### Particulars declared by the Shipper

Issued pursuant to Charter Party indicated hereunder	RECEIVED on board the cargo specified above, according to Shipper's declaration in apparent good order and condition – unless otherwise stated herein – weight, volume, quality and value unknown, for delivery at the port of discharge or so near thereto as the Vessel may safely get, always afloat.  The cargo shipped under this Waybill will be delivered to the Party named as Consignee or its authorised agent, on production of proof of identity without any docu-				
Charter Party (Code name, place and date of issue)	signee or its authorised agent, on production of proof of identity without mentary formalities. The Carrier to exercise due care ensuring that delive to the proper party. However, in case of incorrect delivery, no respons accepted unless due to fault or neglect on the part of the Carrier.  FOR CONDITIONS OF CARRIAGE SEE OVERLEAF.				
Freight payable in accordance therewith.	Freight payable at	Place and date of issue SEOUL, KOREA – APR 07, 2003 Signature			
Printed and sold by Fr. G. Knudtzons Bogtrykkeri A/S. 61 Vallensbækvej. DK-2625 Vallensbæk. Telefax -45 43 55 07 08 by authority of The Baltic and International Maritime Council, (BIMCO), Copenhagen		BARWIL HYOP WOON AGENCIES LTD. AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL			

### **COMMERCIAL INVOICE**

HVE0000043174

1)Shipper/Exporter DAEWOO INTERNATIONAL CORPORATION C.P.O. BOX 2810 SEOUL, KOREA		8)No. & date of invoice 0000076293	APR. 07, 2003	
		9)No. & date of L/C		
2)For Account & Risk of Messrs.  KOPPERS INC.  C/O PORT OF PORTLAN	VID.	10)L/C issuing bank		
C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		11)Remarks:  * THIS INVOICE AMO  ON OR BEFORE MA	DUNT SHOULD BE PAID Z 20, 2003	
3)Notify Party KOPPERS INC. C/O PORT OF PORTLAN PORTLAND OREGON, U.			,	
4)Port of Loading POHANG, KOREA	5)Final destination PORTLAND, OREGON, U.S.A.			
6)Vessel OSPREY ARROW V.142	7)Sailing on / about APR. 06, 2003		•	
12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit	15)Unit-price 16)Amount	

FOB POHANG, KOREA -

N/M IN BULK

LIQUID PITCH 2,251.760 M/T

- \* PURCHASE ORDER NO. OM3-1670-1
- \* PAYMENT INSTRUCTION

PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T) TO ACCOUNT NO.141-86-000281 OF KOREA FIRST BANK NAMSAN BRANCH. SEOUL, KOREA IN FAVOUR OF DAEWOO INTERNATIONAL CORPORATION. CHEMICAL TEAM 5 AND PLEASE INDICATE YOUR REFERENCE NO. IP 2003/01 WHEN YOU REMIT THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA **CABLE: DAEWOO SEOUL** 

TELEX: DAEWOO K23341/4, K24295

TELEPHONE: 759-2114

18) Signed by

INTERNATIONAL CORP

## DEPARTMENT OF THE TREASURY UNITED STATES CUSTOMS SERVICE

### SPECIAL CUSTOMS INVOICE

Form Approved.

19 U. S. C. 1481, 1482, 1484		(Use separate invoic	e for purchased and no	n-purchased goods.	)	0.1	M.B. No. 48-R0342
	NATIONAL CORPO		2. DOCUMENT NR	*		NR. AND DA	TE*
C.P.O. BOX 28	310 SEOUL, KOF	REA	4. REFERENCES*			-	
			PURCHASE ORDER NO. 0M3-1670-1				
5. CONSIGNEE KOPPERS INC. C/O PORT OF E PORTLAND OREG							
			7. ORIGIN OF GOO				*
B. NOTIFY PARTY*			9 TERMS OF SAL	BLIC OF KO			
KOPPERS INC. C/O PORT OF I PORTLAND OREG					_ 5.00001.	·	
10. ADDITIONAL TRANSPORTAT	TION INFORMATION*		· ·				•
TO :	POHANG, KOREA PORTLAND, ORE OSPREY ARROW	GON, U.S.A.		HANG, KORE		ROM B/L [	DATE
	APR. 06, 2003		11. CURRENCY USED		12. EXCH. RATE	(if fixed or agreed)	13. DATE ORDER ACCEPTE
14. MARKS AND NUMBERS ON SHIPPING PACKAGES	15. NUMBER OF PACKAGES	16. FULL DESCRIPTI OF GOODS	ION	17. QUANTITY		PRICE 19. INVOICE	20. INVOICE TOTALS
				2,251.760	i/T US	p:	
		LIQUID PITCH				US	
N/M IN			•				
BULK							
		•					
111111111111	1,,,,,,,,,,				,,,,,,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,		''''	,,,,,,,	111111111
		•					
	1						
	]						
	as goods involved fund	shing goods or services to the sell	(		i	<u> </u>	
		cluded in the invoice price, check bo			22. PACKIN	G COSTS	
Z7.	DECLARATION OF	SELLER/SHIPPER(OR AGEN	T)		INTERN	EAN OR ATIONAL	
A) If there are any rebates  A) bounties allowed upon th		If the goods were not sold o				MESTIC	
of goods, I have checked itemized separately below	box(A) and	willing to receive.	column 15 the price	1 would be		CHARGES	
I further declare that there is no differing from this one (unless oth	nerwise described	(C) SIGNATURE OF SELI	LER/SHIPPER(OR	AGENT):		URANCE DSTS	
below) and that all statements con- invoice and declaration are true a		DAEWOO INTERN	IATIONAL CORF			R COSTS fy Below)	
28. THIS SPACE FOR CONTINUIN	IG ANSWERS	LOTTE SALES IN THE INC.					
		Author	ized Signature	-			
THIS FORM OF INVOICE PROLITED CENER	ALLY IF RATE OF DUTY DASS.	HIPON OF REGILIATED BY VALUE OF GOODS AND		OF SHIPMENT EXCEED	\$ \$500 OTHER	WISE USE COMME	RCIAL INVOICE

Customs Form 5515 (12-20-76)

<sup>\*</sup>Not necessary for U.S. Customs purposes.

1. Exporter (Name, address, country) **ORIGINAL** DAEWOO INTERNATIONAL CORPORATION **CERTIFICATE OF ORIGIN** C.P.O. BOX 2810 SEOUL, KOREA issued by THE KOREA CHAMBER OF COMMERCE & INDUSTRY 2. Consignee (Name, address, country) Seoul, Republic of Korea KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A. 3. Country of Origin The Republic of Korea 4. Transport details 5. Remarks \* FROM : POHANG, KOREA : PORTLAND, OREGON, U.S.A. APR. 06, 2003 SAILING DATE: \* VESSEL : OSPREY ARROW V.142 6. Marks & numbers; number and kind of packages: description of goods 7. Quantity 2,251.760 M/T N/M IN BULK LIQUID PITCH \* PURCHASE ORDER NO. OM3-1670-1 Š The undersigned authority hereby setting that the goods described above originate in the country should fin box granting best of its smalledge and belief.

OB. APR. 2003

THE KOREA CHAMBER OF COMMERCE & INDUSTRY 8. Declaration by the Exporter 9. Certification The undersigned, as an authorized signatory, hereby declares that the abovementioned goods were produced or manufactured in the country shown in box 3. DAEWOO INTERNATIONAL CORP. (Signature) Authorized Signature THE STATE OF (Name) TAE YONG LEE Certificate No. THE KOREA CHAMBER OF COMMERCE & INDUSTRY

12, 13TH FLOOR, SAMDO BLDG., 1-170, SUNHWA-DONG, CHUNG-GU, SEOUL, KOREA TEL: (02) 3705-7000 FAX: (02) 771-0741~8

## ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC. 7540 NW SAINT HELENS ROAD, PORTLAND, OREGON 97210-3663

TEL: 503-286-3681 FAX: 503-285-2831

ATTN: MR. AMOS S. KAMERER

DATE: DEC. 06, 2000

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS;

► INVOICE NO. : 0000020444 DATED DEC. 03, 2000

▶ QUANTITY : 248.376MT OF LIQUID PITCH

► AMOUNT : DEC. 03, 2000

► DUE DATE : JAN. 17, 2001

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE JAN. 17, 2001 TO THE BANK AND ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

► VESSEL NAME : M/V "OSPREY ARROW"

► FROM KWANGYANG KOREA, TO PORTLAND, OREGON, U.S.A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HEREWITH;

1. BILL OF LADING : 2 ORIGINALS + 2 COPIES

2. COMMERCIAL INVOICE : 3 ORIGINALS
3. CUSTOMS INVOICE : 3 ORIGINALS

4. CERTIFICATE OF ORIGIN : 1 ORIGINAL + 1 COPY

5. CERTIFICATE OF ANALYSIS : 3 ORIGINALS
6. CERTIFICATE OF WEIGHT : 3 ORIGINALS
7. CERTIFICATE OF VESSEL CLEANLINESS : 3 ORIGINALS

BEST REGARDS.

J. W. LEE GENERAL MANAGER

KOREA STEEL CHEMICAL CO., LTD



We acquired ISO 9002 and ISO 14001 certification

CONFIDENTIAL Koppers003933

Shipper	NON-NEGOTIABLE CHEMICAL TANK	CTWB No.	
DAEWOO CORPORATION	WAYBILL	1	
C.P.O. BOX 2810 SEOUL KOREA		Reference No.	
Consignee (not to order)			
Surfagree (not to Sider)	•		
TO ORDER			
Notify address			
·			
KOPPERS INDUSTRIES, INC.			
KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND	ZWANNE	a coestatione	
KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND	SECONI		
KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND, OREGON, U.S.A	SECON		
KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND, OREGON, U.S.A  Vessel OSPREY ARROW V.128  Port of loading KWANGYANG, KOREA Port of discharge	SECON	Weight (in metric tons)	
KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND, OREGON, U.S.A  Vessel Port of loading OSPREY ARROW V.128 KWANGYANG, KOREA Port of discharge PORTLAND, OREGON, U.S.A			

\* PURCHASE ORDER NO. : OM0-1670-2

"FREIGHT PAYABLE AS PER CHARTER PARTY"

ON BOARD DATE : DEC.03, 2000

Particulars declared by the Shipper

. [	i		
	Issued pursuant to Charter Party indicated hereunder	ration in apparent good ord weight, volume, quality and	cargo specified above, according to Shipper's decla- der and condition – unless otherwise stated herein – value unknown, for delivery at the port of discharge or sel may safely get, always afloat.
	Charter Party (Code name, place and date of issue)	signee or its authorised age mentary formalities. The Car to the proper party. Howeve	is Waybill will be delivered to the Party named as Con- ent, on production of proof of identity without any docu- rier to exercise due care ensuring that delivery is made r, in case of incorrect delivery, no responsibility will be alt or neglect on the part of the Carrier.
		FOR CONDITIONS OF CARI	•
	Freight payable in accordance therewith.	Freight payable at	Place and date of issue
			SEOUL, KOREA – DEC.04, 2000
			BARWIL HYOP WOON AGENCIES LTD.
. ]			AS AGENTS FOR AND ON BEHALF OF
r. G. by	Printed and sold by Knudtzons Bogtrykkeri A/S, 55 Toldbodgade, DK-1253 Copenhagen K, authority of The Baltic and International Maritime Council (BIMCO), Constitute Council (BIMCO),		MASTER/OWNER OF SAID VESSEL

Koppers003934

### NON-NEGOTIABLE CHEMICAL TANK WAYBILL

**CODE NAME: "CHEMTANKWAYBILL 85"** 

#### RECOMMENDED

by

BIMCO (The Baltic and International Maritime Council)
EPCA (The European Petrochemical Association)
ECCTO (European Coastal Chemical Tanker Owners)
INTERTANKO (International Association of Independent Tanker Owners)

### Conditions of Carriage.

(1) This Waybill, which is not a document of title to the cargo, is subject to the terms and conditions, liberties and exceptions of the Voyage Charter Party dated as overleaf and to the provisions set out below.

#### (2) Paramount Clause

(a) This Waybill is not a bill of lading and no bill of lading will be issued. However, it is agreed that the Hague Rules contained in the International Convention for the Unification of certain rules relating to Bills of Lading, dated Brussels the 25th August 1924 as enacted in the country of shipment shall apply to this Waybill. When no such enactment is in force in the country of shipment, the corresponding legislation of the country of destination shall apply, but in respect of shipments to which no such enactments are compulsorily applicable, the terms of the said Convention shall apply in exactly the same way.

### (b) Trades where Hague-Visby Rules apply.

In trades where the International Brussels Convention 1924 as amended by the Protocol signed at Brussels on February 23rd 1968 – the Hague-Visby Rules – apply compulsorily, the provisions of the respective legislation shall also apply to this Waybill.

- (c) The Carrier shall in no case be responsible for loss of or damage to cargo howsoever arising prior to loading into and after discharge from the Vessel or while the goods are in the charge of another Carrier nor in respect of deck cargo.
- (d) It is agreed that whenever the Brussels Convention and the Brussels Protocol or statutes incorporating same use the words "Bill of Lading" they shall be read and interpreted as meaning "Waybill".

#### (3) General Average

General Average shall be adjusted, stated and settled according to York-Antwerp Rules 1974 or any modification thereof at the place agreed in the Charter Party.

Cargo's contribution to General Average shall be paid to the Carrier even when such average is the result of a fault, neglect or error of the Master, Pilot or Crew. The Charterers, Shippers and Consignees expressly renounce the Netherlands Commercial Code, Art. 700, and the Belgium Commercial Code, Part II, Art. 148.

If the adjustment of General Average or the liability for any collision in which the Vessel is involved while performing the carriage under this contract falls to be determined in accordance with the law and practice of the United States of America, the following clauses shall apply:

#### New Jason Clause.

In the event of accident, danger, damage or disaster before or after the commencement of the voyage, resulting from any cause whatsoever, whether due to negligence or not, for which or for the consequence of which, the Carrier is not responsible, by Statute, contract or otherwise, the cargo, shippers, consignees or owners of the cargo shall contribute with the Carrier in general average to the payment of any sacrifices, losses or expenses of a general average nature that may be made or incurred and shall pay salvage and special charges incurred in respect of the cargo. If a salving vessel is owned or operated by the Carrier, salvage shall be paid for as fully as if the said salving vessel or vessels belonged to strangers. Such deposit as the Carrier, or his agent, may deem sufficient to cover the estimated contribution of the cargo and any salvage and special charges thereon shall, if required, be made by the cargo, shippers, consignees or owners of the cargo to the Carrier before delivery.

#### Both-to-Blame Collision Clause.

If the Vessel comes into collision with another vessel as a result of the negligence of the other vessel and any act, neglect or default of the Master, Mariner, Pilot or the Servants of the Carrier in the navigation or in the management of the Vessel, the owners of the cargo carried hereunder will indemnify the Carrier against all loss or liability to the other or non-carrying vessel or her owners in so far as such loss or liability represents loss of, or damage to, or any claim whatsoever of the owners of the said cargo, paid or payable by the other or non-carrying vessel or her owners as part of their claim against the carrying vessel or the Carrier.

The foregoing provisions shall also apply v/here the owners, operators or those in charge of any vessel or vessels or objects other than, or in addition to, the colliding vessels or objects are at fault in respect of a collision or contact.

For particulars of cargo, freight, destination, etc., see overleaf.

Authorized Signature

DAEWOO CORPORATION

Koppers003935

### **COMMERCIAL INVOICE**

HVC0000012336

1)Shipper/Exporter DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA  2)For Account & Risk of Messrs. KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A  3)Notify Party KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		8)No. & date of invoice 0000020444 DEC. 03, 2000					
		9)No. & date of L/C  10)L/C issuing bank  11)Remarks:  * P/O NO.OMO-1670-2 DATED JAN. 07, 2000  - THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE JAN. 17, 2001					
					4)Port of Loading KWANGYANG, KOREA	5)Final destination PORTLAND, OREGON, U.S.A	
					6)Carrier 7)Sailing on / about DEC . 03, 2000		Using the second of the second
					12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit 15)Unit-price 16)Amount

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

248.376 M/T



USI

- \* INVOICE NO. : 0000020444 DATED DEC. 03, 2000
- \* PAYMENT INSTRUCTION
  PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
  TO ACCOUNT NO. 361-81-013944 OF SHINHAN BANK, SEODAEMUN BRANCH,
  SEOUL, KOREA IN FAVOUR OF KOREA STEEL CHEMICAL CO., LTD. AND
  PLEASE INDICATE OUR REFERENCE NO. 0000020444 WHEN YOU REMIT
  THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA CABLE: DAEWOO SEOUL

TELEX: DAEWOO K23341/4,K24295

TELEPHONE: 759-2114

18) Signed by

DAEWOO CORPORATION

DEPARTMENT OF THE TREASURY UNITED STATES CUSTOMS SERVICE 19 U. S. C. 1481, 1482, 1484

### SPECIAL CUSTOMS INVOICE

(Use separate invoice for purchased and non-purchased goods.)

Form Approved.
O. M. B. No. 48-R0342

1. SELLER DAEWOO CORPORA	ATION		2. DOCUMENT	NR. *	3. INVOICE NR. A	ND DATE *
C.P.O. BOX 2810 SE		A	4. REFERENC	ES *	DEC. 03, 200	0
5. CONSIGNEE			KOPPERS INDUSTRIES INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.			
TO ORDER			7. ORIGIN OF		*	
8. NOTIFY PARTY *			9. TERMS OF	SALE, PAYN	IENT, AND DISCOU	NT.
KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.			- F.O.B. KWANGYANG, KOREA			
TO : POF	ANGYANG,	KOREA REGON, U.S.A	* T/T REM	IITTANCE	45 DAYS AFTER	B/L DATE
SAILING ON : DEC		**	11, CURRENCY US	ED .	12.EXCH. RATE (if fixed or agreed)	13. DATE ORDER ACCEPTED
14. MARKS AND NUMBERS ON SHIPPING PACKAGES	15, NUMBER OF PACKAGES	16, FULL DESCRIF OF GOODS		17. QUANTITY	UNIT PRICE  18. HOME 19. MARKET INVOICE	20 INVOICE TOTALS
			2.	8.376M/T	S	1
N/M IN BULK		QUID PITCH				
	- PUR	CHASE ORDER NO. : C	MO-1670-2		•	
<i>!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!</i>	(1/////////////////////////////////////	//////////////////////////////////////	///////////////////////////////////////	,,,,,,,,,,,,	<b>/</b> //	
	٠	• 1				
		furnishing goods or services to the sel not included in the invoice price, check			22 PACKING COSTS	
l declare :		ON OF SELLER/SHIPPER(OR AG		sold. I have	23.OCEAN OR INTERNATIONAL FREIGHT	
(A) bounties allowed up of goods, I have cl	on the exportation	(R) checked box(B) and have	<del>-</del>		24. DOMESTIC FREIGHT CHARGES	
itemized separately	below.	I would be willing to re	ceive.		25. INSURANCE	
I further declare that there is differing from this one (unless below) and that all statement invoice and declaration are tru	ed (C) SIGNATURE OF S	ELLER/SHIPPER	OR AGENT):	COSTS  26. OTHER COSTS  (Specify Below)	ÁTION	
29. THIS SPACE FOR CO	ONTINUING AN	SWERS				
·					2-flee	, .et.ma

THIS FORM OF INVOICE REQUIRED GENERALLY IF RATE OF DUTY BASED UPON OR REQULATED BY VALUE OF GOODS AND PURCHASE PRICE OR VALUE OF SHIPMENT EXCEEDS \$500 OTHERWISE USE COMMERCIAL INVOICE

\*Not necessary for U. S. Customs purposes.

Customs Form 5515 (12-20-76)

1. Exporter (Name, address, country)		ORIGINAL	
DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA	CERTIFICATE OF ORIGIN  issued by  THE KOREA CHAMBER OF COMMERCE & INDUSTRY  Seoul; Republic of Korea		
2. Consignee (Name, address, country) TO ORDER			
	3. Country of Origin The Republic of Korea	.,,,,	
4. Transport details  * FROM: KWANGYANG, KOREA  * TO: PORTLAND, OREGON, U.S.A  * SAILING DATE: DEC. 03, 2000  * VESSEL NAME: OSPREY ARROW	5. Remarks		
6. Marks & numbers; number and kind of packages; description of	goods 7. (	Quantity	
N/M IN BULK		248.376 M/T (QUANTITY)	
LIQUID PITCH			
		///////////////////////////////////////	
8. Declaration by the Exporter  The undersigned, as an authorized signatory, hereby declares that the above- mentioned goods were produced or manufactured in the country shown in box 3.		ne goods described above originate knowled and belief.	
(Signature) DAEWOO CORPORATION  Authorized Signature	THE KOREA CHAMBER OF COMMERCE & INDUSTI Executive Director Kang, Seurg-VII The Republic of Korea and Authorized Signat Authorized Signat	Trans.	
(Name) TAE YONG LEE	Certificate No. 39881	ER OF COMMERCE & INDUST	

CONFIDENTIAL

12, 13TH FLOOR, SAMDO BLDG., 1-170, SUNHWA-DONG, CHUNG-GU, SEOUL, KOREA TEL: (02) 3705-7000 FAX: (02) 771-0741~8

## ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC. 7540 NW SAINT HELENS ROAD, PORTLAND, OREGON 97210-3663

TEL: 503-286-3681 FAX: 503-285-2831

ATTN: MR. AMOS S. KAMERER

DATE: OCT. 12, 2000

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS;

► INVOICE NO. : 0000016835 DATED OCT. 09, 2000

► QUANTITY : 2,474.917MT OF LIQUID PITCH

► AMOUNT : OCT. 09, 2000

▶ DUE DATE : NOV. 23, 2000

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE NOV. 23, 2000 TO THE BANK AND ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

▶ VESSEL NAME : M/V "OSPREY ARROW"

▶ FROM KWANGYANG KOREA, TO PORTLAND, OREGON, U.S.A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HEREWITH;

1. BILL OF LADING : 2 ORIGINALS + 2 COPIES

2. COMMERCIAL INVOICE : 3 ORIGINALS
3. CUSTOMS INVOICE : 3 ORIGINALS

4. CERTIFICATE OF ORIGIN : 1 ORIGINAL + 1 COPY

5. CERTIFICATE OF ANALYSIS : 3 ORIGINALS
6. CERTIFICATE OF WEIGHT : 3 ORIGINALS
7. CERTIFICATE OF VESSEL CLEANLINESS : 3 ORIGINALS

BEST REGARDS,

J. W. LEE GENERAL MANAGER

KOREA STEEL CHEMICAL CO., LTD



We acquired ISO 9002 and ISO 14001 certification

CONFIDENTIAL Koppers003939

Shipper  DAEWOO CORPORATIO  C.P.O. BOX 2810 SEOUL I		NON-NEGOTIABLE CHEMICAL TANK WAYBILL	CTWB No. 2 Reference No.
Consignee (not to order)			
TO ORDER			
Notify address			
KOPPERS INDUSTRIES, I			
C/O PORT OF PORTLAND PORTLAND, OREGON, U.			
		<b>5110</b> 10	
PORTLAND, OREGON, U.  Vessel OSPREY ARROW V.127		SICO	II) CZZWYAŁ
PORTLAND, OREGON, U.  Vessel OSPREY ARROW V.127	Port of loading  KWANGYANG, KOREA	STOR	II) (PRIMA).
PORTLAND, OREGON, U.  Vessel OSPREY ARROW V.127 Port of discharge PORTLAND, OREGON, U.	Port of loading  KWANGYANG, KOREA		Weight (in metric tons)
PORTLAND, OREGON, U.  Vessel OSPREY ARROW V.127 Port of discharge PORTLAND, OREGON, U.	Port of loading  KWANGYANG, KOREA		
PORTLAND, OREGON, U.  Vessel OSPREY ARROW V.127  Port of discharge PORTLAND, OREGON, U.	Port of loading  KWANGYANG, KOREA		Weight (in metric tons)
PORTLAND, OREGON, U.  Vessel OSPREY ARROW V.127 Port of discharge PORTLAND, OREGON, U. Description of cargo	Port of loading  KWANGYANG, KOREA	2,47	Weight (in metric tons)

ON BOARD DATE:
OCT.09, 2000

### Particulars declared by the Shipper

	Issued pursuant to Charter Party indicated hereunder	RECEIVED on board the cargo specified above, according to Shipper's declaration in apparent good order and condition – unless otherwise stated herein weight, volume, quality and value unknown, for delivery at the port of discharge of so near thereto as the Vessel may safely get, always afloat.  The cargo shipped under this Waybill will be delivered to the Party named as Consignee or its authorised agent, on production of proof of identity without any documentary formalities. The Carrier to exercise due care ensuring that delivery is mad to the proper party. However, in case of incorrect delivery, no responsibility will be accepted unless due to fault or neglect on the part of the Carrier.		
	Charter Party (Code name, place and date of issue)			
		FOR CONDITIONS OF CARRIA	IGE SEE OVERLEAF.	
	Freight payable in accordance therewith.	Freight payable at	Place and date of issue	
			SEOUL KOREA – OCT.09, 2000	
			Signature	
			BARWIL HYOP WOON AGENCIES LTD.	
Fr. G. by	Printed and sold by Knudtzons Bogtrykkeri A/S, 55 Toldbodgade, DK-1253 Copenhagen K, authority of The Ballic and International Maritime Council (BIMCO),		AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL	

### NON-NEGOTIABLE CHEMICAL TANK WAYBILL

**CODE NAME: "CHEMTANKWAYBILL 85"** 

### RECOMMENDED

by
BIMCO (The Baltic and International Maritime Council)
EPCA (The European Petrochemical Association)
ECCTO (European Coastal Chemical Tanker Owners)
INTERTANKO (International Association of
Independent Tanker Owners)

### Conditions of Carriage.

(1) This Waybill, which is not a document or title to the cargo, is subject to the terms and conditions, liberties and exceptions of the Voyage Charter Party dated as overleaf and to the provisions set out below.

#### (2) Paramount Clause

(a) This Waybill is not a bill of lading and no bill of lading will be issued. However, it is agreed that the Hague Rules contained in the International Convention for the Unification of certain rules relating to Bills of Lading, dated Brussels the 25th August 1924 as enacted in the country of shipment shall apply to this Waybill. When no such enactment is in force in the country of shipment, the corresponding legislation of the country of destination shall apply, but in respect of shipments to which no such enactments are compulsorily applicable, the terms of the said Convention shall apply in exactly the same way.

#### (b) Trades where Hague-Visby Rules apply.

In trades where the International Brussels Convention 1924 as amended by the Protocol signed at Brussels on February 23rd 1968 – the Hague-Visby Rules – apply compulsorily, the provisions of the respective legislation shall also apply to this Waybill.

- (c) The Carrier shall in no case be responsible for loss of or damage to cargo howsoever arising prior to loading into and after discharge from the Vessel or while the goods are in the charge of another Carrier nor in respect of deck cargo.
- (d) It is agreed that whenever the Brussels Convention and the Brussels Protocol or statutes incorporating same use the words "Bill of Lading" they shall be read and interpreted as meaning "Waybill".

#### (3) General Average

General Average shall be adjusted, stated and settled according to York-Antwerp Rules 1974 or any modification thereof at the place agreed in the Charter Party.

Cargo's contribution to General Average shall be paid to the Carrier even when such average is the result of a fault, neglect or error of the Master, Pilot or Crew. The Charterers, Shippers and Consignees expressly renounce the Netherlands Commercial Code, Art. 700, and the Belgium Commercial Code, Part II, Art. 148.

If the adjustment of General Average or the liability for any collision in which the Vessel is involved while performing the carriage under this contract falls to be determined in accordance with the law and practice of the United States of America, the following clauses shall apply:

#### New Jason Clause.

In the event of accident, danger, damage or disaster before or after the commencement of the voyage, resulting from any cause whatsoever, whether due to negligence or not, for which or for the consequence of which, the Carrier is not responsible, by Statute, contract or otherwise, the cargo, shippers, consignees or owners of the cargo shall contribute with the Carrier in general average to the payment of any sacrifices, losses or expenses of a general average nature that may be made or incurred and shall pay salvage and special charges incurred in respect of the cargo. If a salving vessel is owned or operated by the Carrier, salvage shall be paid for as fully as if the said salving vessel or vessels belonged to strangers. Such deposit as the Carrier, or his agent, may deem sufficient to cover the estimated contribution of the cargo and any salvage and special charges

thereon shall, if required, be made by the cargo, shippers, consignees or owners of the cargo to the Carrier before delivery.

#### Both-to-Blame Collision Clause.

If the Vessel comes into collision with another vessel as a result of the negligence of the other vessel and any act, neglect or default of the Master, Mariner, Pilot or the Servants of the Carrier in the navigation or in the management of the Vessel, the owners of the cargo carried hereunder will indemnify the Carrier against all loss or liability to the other or non-carrying vessel or her owners in so far as such loss or liability represents loss of, or damage to, or any claim whatsoever of the owners of the said cargo, paid or payable by the other or non-carrying vessel or her owners as part of their claim against the carrying vessel or the Carrier.

The foregoing provisions shall also apply where the owners, operators or those in charge of any vessel or vessels or objects other than, or in addition to, the colliding vessels or objects are at fault in respect of a collision or contact.

For particulars of cargo, freight, destination, etc., see overleaf.

extrange basinohua

CONFIDENTIAL

DAEWOO CORPORATION

Koppers003941

DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA	NON-NEGOTIABLE CHEMICAL TANK WAYBILL	CTWB No.  2 Reference No.
Consignee (not to order)		
TO ORDER		
Notify address		
KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND, OREGON, U.S.A		
Vessel Port of loading OSPREY ARROW V.127 KWANGYANG, KOREA		
PORTLAND, OREGON, U.S.A		
Description of cargo		Weight (in metric tons)
	2,474	4.917 M/Γ
N/M IN BULK LIQUID PITCH		

\* PURCHASE ORDER NO. : OM0-1670-2

" FREIGHT PAYABLE AS PER CHARTER PARTY "

ON BOARD DATE:
OCT.09, 2000

#### Particulars declared by the Shipper

Issue hereu	d pursuant to Charter Party indicated Inder	ration in apparent good orde weight, volume, quality and ve so near thereto as the Vesse The cargo shipped under this	cargo specified above, according to Shipper's decla- er and condition – unless otherwise stated herein – alue unknown, for delivery at the port of discharge or el may safely get, always afloat. s Waybill will be delivered to the Party named as Con-	
	er Party (Code name, place and of issue)	signee or its authorised agent, on production of proof of identity without any documentary formalities. The Carrier to exercise due care ensuring that delivery is mad to the proper party. However, in case of incorrect delivery, no responsibility will be accepted unless due to fault or neglect on the part of the Carrier.		
		FOR CONDITIONS OF CARRI	IAGE SEE OVERLEAF.	
Freigl	nt payable in accordance therewith.	Freight payable at	Place and date of issue	
			SEOUL, KOREA – OCT 09, 2000 Signature	
Fr. G. Knudtzons E by authority of	Printed and sold by Bogtrykkeri A/S, 55 Toldbodgade, DK-1253 Copenhagen K. The Baltic and International Maritime Council (BIMCO). Copenhagen, Copyright		BARWIL HYOP WOON AGENCIES LTD. AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL	

CONFIDENTIAL Koppers003942

# **COMMERCIAL INVOICE**

HVC0000010294

I)Shipper/Exporter DAEWOO CORPORATION		8)No. & date of invoice 0000016835	OCT. 09, 2000	
C.P.O. BOX 2810 S	C.P.O. BOX 2810 SEOUL KOREA			
2)For Account & Risk of Messrs.  KOPPERS INDUSTRIES, INC.  C/O PORT OF PORTLAND  PORTLAND OREGON, U.S.A		10)L/C issuing bank  11)Remarks:		
4)Port of Loading KWANGYANG, KOREA	5)Final destination PORTLAND, OREGON, U.S	- -1	NAL	
6)Carrier OSPREY ARROW	7)Sailing on / about OCT. 09, 2000			
12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit	15)Unit-price 16)Amount	

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

2,474.917 M/T

- \* INVOICE NO. : 0000016835 DATED OCT. 09, 2000
- \* PAYMENT INSTRUCTION

  PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)

  TO ACCOUNT NO. 361-81-013944 OF SHINHAN BANK, SEODAEMUN BRANCH,
  SEOUL, KOREA IN FAVOUR OF KOREA STEEL CHEMICAL CO., LTD. AND
  PLEASE INDICATE OUR REFERENCE NO. 0000016835 WHEN YOU REMIT
  THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA CABLE: DAEWOO SEOUL TELEX: DAEWOO K23341/4,K24295

TELEPHONE: 759-2114

8) Signed by

DAEWOO CORPORATION

DEPARTMENT OF THE TREASURY UNITED STATES CUSTOMS SERVICE 19 U. S. C. 1481, 1482, 1484

#### SPECIAL CUSTOMS INVOICE

(Use separate invoice for purchased and non-purchased goods.)

Form Approved. O. M. B. No. 48-R0342

DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		2. DOCUMENT	NR. *		ce nr. an 0016835	D DATE *	
		4. REFERENCES * OCT. 09, 2000			0		
						•	•
5. CONSIGNEE		``	6 BUYER (if a	NDUSTRIE	S INC.		
TO ORDER			C/O PORT			t	
			7. ORIGIN OF	GOODS			
B. NOTIFY PARTY *	· · · · · · · · · · · · · · · · · · ·		9. TERMS OF	PUBLIC OF			<u>.                                    </u>
KOPPERS INDUST C/O PORT OF POR PORTLAND OREG	TLAND		- F.O.B.	KWANGYA	ANG, KO	OREA	
10. ADDITIONAL TRANSPORTATION INFOMATION * FROM : KWANGYANG, KOREA TO : PORTLAND, OREGON, U.S.A		KOREA REGON, U.S.A	* T/T REM	MITTANCE	45 DAY	S AFTER	B/L DATE
CARRIER : OS SAILING ON : OC	PREY ARRO T. 09, 2000	YY	11, CURRENCY US	ED	12, EXCH. F		13, DATE ORDER ACCEPT
14. MARKS AND NUMBERS ON	15 NUMBER OF	16, FULL DESCRIP	TION	1 7.	UNIT PRICE		20 INVOICE
SHIPPING PACKAGES	PACKAGES	OF GOODS		QUANTITY	MARKET	INVOICE	TOTALS
			2,4	74.917M/	rs 📗		
N/M IN	I	IQUID PITCH					
BULK	- PUR	CHASE ORDER NO. : C	)M0-1670-2	2			
	(11/1/1/1/1/1/1/1//////////////////////	////////////////////////////////////	///////////////////////////////////////	 	V//		
•							
	,						
		furnishing goods or services to the sell- not included in the invoice price, check l			22. PACKI	NG COSTS	
27. DECLARATION OF SELLER/SHIPPER(OR AGE					23.OCEAN OR INTERNATIONAL		***************************************
If there are any rebates, drawbacks or  If the goods were not sol  AND bounties allowed upon the exportation  (B) checked box (B) and boxed.							
If there are any rebounties allowed up	ebates, drawbacks o		•		FRE 24. DOME	STIC	
(A) If there are any rebounties allowed up of goods, I have clitemized separately	ebates, drawbacks of soon the exportation hecked box(A) and below.	r If the goods were not so checked box(B) and have I would be willing to rec	e indicated in colum		FRE 24. DOME FREIGHT 25. INSU	STIC CHARGES	
If there are any rebounties allowed up of goods, I have climated separately further declare that there is differing from this one (unless below) and that all statement	ebates, drawbacks of the exportation hecked box (A) and below. So no other invoice otherwise describes contained in this	(B) checked box(B) and have I would be willing to rec	e indicated in colum eive.	nn 9 the price	FRE 24. DOME FREIGHT 25. INSUI CO.	CHARGES HANCE STS	RATION
(A) If there are any rebounties allowed up of goods, I have clitemized separately further declare that there is liftering from this one (unless	ebates, drawbacks of soon the exportation hecked box (A) and below. s no other invoice otherwise describe s contained in this se and correct.	(B) checked box(B) and have I would be willing to rec d (C) SIGNATURE OF SI	e indicated in colum eive.	OR AGENT):	FRE 24. DOME FREIGHT 25. INSUI CO.	STIC CHARGES HANCE	RATION
If there are any reported and the following allowed up of goods, I have of itemized separately further declare that there is iffering from this one (unless felow) and that all statement revoice and declaration are true.	ebates, drawbacks of soon the exportation hecked box (A) and below. s no other invoice otherwise describe s contained in this se and correct.	(B) checked box(B) and have I would be willing to rec d (C) SIGNATURE OF SI	e indicated in colum eive.	OR AGENT):	FRE 24. DOME FREIGHT 25. INSUI CO 26. OTHEI	CHARGES HANCE STS	

\*Not necessary for U. S. Customs purposes.

Customs Form 5515 (12-20-76)

1. Exporter (Name, address, country)	ORIGINAL
DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA	CERTIFICATE OF ORIGIN
2. Consignee (Name, address, country) TO ORDER	issued by  THE KOREA CHAMBER OF COMMERCE & INDUSTRY  Seoul, Republic of Korea
	3. Country of Origin The Republic of KOREA
4. Transport details  * FROM: KWANGYANG, KOREA  * TO: PORTLAND, OREGON, U.S.A  * SAILING DATE: OCT. 09, 2000  * VESSEL NAME: OSPREY ARROW	5. Remarks
6. Marks & numbers; number and kind of packages: description of g	goods 7. Quantity
n/m in Bulk	2,474.917M/T (QUANTITY)
LIQUID PITCE	r ·
	OMO-1670-2 8835 DATED OCT. 09, 2000
8. Declaration by the Exporter  The undersigned, as an authorized signatory, hereby declares that the abovementioned goods were produced or manufactured in the country shown in box 3.  (Signature)	9. Certification  The undersigned authority hereby certifies that the goods described above originate in the country shown in box 3 to the best of its knowled and belief.
(Name)	Certificate No. 537007

**KOSCO** 

KOREA STEEL CHEMICAL CO., LTD. 12, 13TH FLOOR, SAMOO BLDG., 1-170, SUNHWA-DONG, CHUNG-GU, SEOUL, KOREA TEL: (02) 3705-7000 FAX: (02) 771-0741-8

10:586 3681

# ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC. 7540 NW SAINT HELENS ROAD, PORTLAND, OREGON 97210-3663

TEL: 503-286-3681 FAX: 503-285-2831

ATTN : MR. AMOS S. KAMERER

DATE: OCT. 12, 2000

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FULLOWS;

▶ INVOICE NO.

: 0000016835 DATED OCT. 09, 2000

**▶ QUANTITY** 

: 2,474.917MT OF LIQUID PITCH

**►** AMOUNT

**▶** ON BOARD DATE

: OCT. 09, 2000

**▶ DUE DATE** 

: NOV. 23, 2000

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE NOV. 23, 2000 TO THE BANK AND ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

: M/V "OSPREY ARROW"

▶ FROM KWANGYANG KORFA, TO PORTI AND, OREGON, U.S.A.

THE FOLLOWING\_SHIPPING DOCUMENTS ARE ENCLOSED HEREWITH;

1. BILL OF LADING

: 2 ORIGINALS + 2 COPIES

2. COMMERCIAL INVOICE

: 3 ORIGINALS

3 CUSTOMS INVOICE

: 3 ORICINALS

4. CERTIFICATE OF ORIGIN

: 1 ORIGINAL + 1 COPY

5. CERTIFICATE OF ANALYSIS

: 3 ORIGINALS

6. CERTIFICATE OF WEIGHT

: 3 ORIGINALS

7. CERTIFICATE OF VESSEL CLEANLINESS

: 3 ORIGINALS

BEST REGARDS,

W. LEE

GENERAL MANAGER

KOREA STEEL CHEMICAL CO., LTD



שב-ב דאטון:אטטנט ואא צב-ב	CP10111-	10:58p 3p81	rhat: 0c
ODE NAME: "CHEMTANKWAYBILL 85"	NON-N	EGOTIABLE	CTWB No.
		CAL TANK	2 2
DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA	WAYBI	LĹ	Reference No.
C.P.O. BOX 2810 SBOUL KOKEA			
Consignae (not to order)			-
TO ORDER			
Notity address			
KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND, OREGON, U.S.A			•
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Vassel Port of loading		لأديرة لازاهداء	Wait III
OSPREY ARROW V.127 KWANGYANG	, KOREA		
PORTLAND, OREGON, U.S.A			
Description of dargo			Waight (in matric tans)
		2 474 0	LT NAT
		2,474.9	1 / M/ I
N/M [N BULK LIQUID PITCH			
• PURCHASE ORDE	ER NO. : OM0-1670	-2	
" FREIGHT PAYAB	LE AS PER CHART	ER PARTY "	
		,	
		ON F	IOARD DATE:
		OCT.	09, 2000
			·
			•
Particula	rs declared by the S	hipper 	
weigi so ne	n in apparent good c ht, volume, quality an ear thereto as the Ve	rger and condition - d value unknown, for ssel may safely get, .	
Charter Party (Code name, place and date of issue)	e or its authorised against formalities. The Co	gent, on production of arrior to exercise due ser, in case of incorre sult or neglect on the	
Freight payable in accordance therewith.	t payable nt	Place and date of	· //
·		SECUT/ KOR	EA - OCT 09 2000

Printed And Apid by

Printed And Apid by

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Printed And Apid by

Printed And Apid by

By authority of the Bailto and international Marillime Council (BIMCO).

Copenhagen, Capyright

AS AGENTS FOR AND ON BEHALF OF

# **COMMERCIAL INVOICE**

HVC0000010294

1)Shipper/Exporter  DAEWOO CORPORATION  C.P.O. BOX 2810 SEOUL KOREA  2)For Account & Risk of Messrs.  KOPPERS INDUSTRIES, INC.  C/O PORT OF PORTLAND  PORTLAND OREGON, U.S.A		8)No. & date of invoice 0000016835 OCT. 09, ,2000				
		9)No. & date of L/C  10)L/C issuing bank				
		11)Remarks: * P/O NO.OMO-1670-2 DATED JAN. 07, 2000				
3)Notify Party  KOPPERS INDUSTRIE  C/O PORT OF PORTE  PORTLAND OREGON,	AND	- THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE NOV. 23, 2000				
s)Pon of Loading KWANGYANG, KOREA	5)Final destination PORTLAND, OREGON, U.	original				
G)Carrier OSPREY ARROW	7)Sailing on / about OCT. 09, 2000					
12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit 15)Unit-price 18)Amount				

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

2,474.917 M/T



- \* INVOICE NO. : 0000016835 DATED OCT. 09, 2000

\* PAYMENT INSTRUCTION

FO ACCOUNT NOT STOY OF THE STATE OF ACCOUNT NOT SECUL, KOREA IN FAVOUR OF KOREA STEEL CHEMICAL CO., LTD. AND PLEASE INDICATE OUR REFERENCE NO. 0000016835 WHEN YOU REMIT THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA CABLE: DAEWOO SEOUL

TELEX: DAEWOO K23341/4,K24295

TELEPHONE: 759-2114

18) Signed by

DAEWOO CORPORATION

DEPARTMENT OF THE		SPECIAL CUS	TOMS INVOI		• • •		Form Approved.
19 U. S. C. 1481, 1482, 1484	PAICE	:Use separate invoice for pure	chased and mon-purc	hased goods.)			O. M. B. No. 48-R0342
I. SELLER			2. DOCUMENT	NR. #	3. IN VOICE	E NR. A	ND DATE #
DAEWOO CORPO					00000	16835	
C.P.O. BOX 2810 S	SEOUL KOR	REA:	4. REFERENC	E5 *	OCT.	09, 20	00
		• ,					
			1	11 - 11 - 7			
5. CONSIGNEE			KOPPER'S	other than consti INDUSTRIE	SINC		
<b>#</b> 0.00000		•		OF PORTL			
TO ORDER				D OREGON,	<u>U.Ş.A.</u>		
			7. ORIGIN OF				
		<u> </u>	· <del></del>	PUBLIC OF			
S NOTIFY PARTY *			9. TERMS OF	SALE, PAYM	ENT. AND	DISCOUN	ΙŦ
KOPPERS INDUST	TRIES, INC.		1				
C/O PORT OF POR			-FOB	KWANGY	ANG KOI	RIPA 1	
PORTLAND OREG			1.0.2.		0,102, 102,		
IO. ACCITIONAL THANS	PORTATION INF	OMATION *	+ T/T RE	MITTANCE	45 DAYS	AFTER	R B/L DATE
FROM : KV	VANGYANO	. KOREA					, <del></del>
		DREGON, U.S.A			•		
	PREY ARRO					•	
SAILING ON : OC			IL CURRENCY US	EO	12, EXCH. RAT		13. DATE ORDER ACCEPTED
SITE OIL OIL			<u> </u>		if fused or agreed:		
MARIE AND NOMBERS ON		19. FILL DESCRIP	TION	17.	UNIT P		20 INVOICE TOYALS
SHIPPING PACKAGES	PACKAGES	OF GOODS	3	40277174	MARKET	NVOICE	TOTALS
			2.4	74.917M/	[s		
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NAM IN	ľ	LIQUID PITCH					
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	have prode invalved	formishing goods or services to the sell	er (c. u. georald such	ns dies, molds.	J.		
		not included in the invoice price, chack			EE. FACKING	COSTE	
	27. DECLARATIO	ON OF SELLER/SHIPPERIOR ACE	ENT)		23. OCEAN		
I declare :		16 d a made		and I b	FREIG	HT	
1 hounting allowed up	rebatos, drawbacks i pin the exportation		-		24. DOMES		
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I further declare that there i					COST		
differing from this one (unless helow) and that all statement	otherwise describ		ELLER/SHIPPER (	OR ACENT):	26. GTHER	COSTS	
invoice and declaration are tre		<b>7</b>		DAEW	O.TSHEDE	كإدعامان	ATITY
29. THIS SPACE FOR C	ONTINUING AN	SWERS					
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	_		•		Authoria	ed Sig	nature
	·		AAR BURGALANA MARKET		· · · · · · · · · · · · · · · · · · ·		

1, Exporter (Name, address, country)	ORIG	INAL			
DAEWOO CORPORATION C.P.O. BOX 2810 SECUL KOREA	CERTIFICATE OF O	FICATE OF ORIGIN			
	Issued by	-			
2. Consignee (Name, address, country) TO ORDER	THE KOREA CHAMBER OF COMMERCE & INDUSTRY  Seoul, Republic of Korea				
	1.0				
	3. Country of Origin The Republic of KOREA				
4 Transport details	5. Remarks				
FROM: KWANGYANG, KOREA TO: PORTLAND, OREGON, U.S.A SAILING DATE: OCT. 09, 2000 VESSEL NAME: OSPREY ARROW					
6. Marks & numbers; number and kind of packages; description of ga	oods 7. Quantity				
N/M IN BULK	2,474.9 (OUAN	17M/T TITY)			
LIQUID PITCH	,•	,			
* FURCHASE ORDER NO. : 0 * INVOICE NO. : 0000016	i i				
//////////////////////////////////////	!!! <b>!!!</b> !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	///////////////////////////////////////			
Declaration by the Exporter  The undersigned, on an authorized signatory, hereby disclares that the about numbered goods were produced or manufactured in the country shown in box 3.	9. Certification  The understoned authority hereby certifies that the goods desire the country shown in box 2 to the best of its knowled and	cribed above originate I belief.			
The state of the s	The understaned authorist hereby certifies that the goods design the country shown in box 3 to the best of its knowled and				
(Signature)	The Thirty Control of the Control of				
policy in the second of the	Authorized Signatury				
(Name)	Certificato No. 537007				
	THE KOREA CHAMBER OF CO	MMERCE & INDUSTRY			



(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

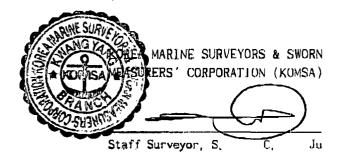
TELEGRAMS: TELEPHONE "KOMSA" SEOUL SEOUL 754-8106-8 YOSU 62-4589 C. P. O. BOX 3121 SEOUL PUSAN 44-5786 62-6599 TLX, NO, KOMSA K24945 ULSAN 72-7627 DONGHAE 33-1887 FAX. 754 · 8109 1NCHON 763 · 9501 · 2 2474 COPY MOKPO 43-1205 KWANGYANG 791-3950 POHANG 72-3942 2-9350 KUNSAN

Report No. G-001009-02 Issued at: Kwangyang, Korea Date: Oct. 9, 2000

#### TANK DRY CERTIFICATE

Applicant:Messrs	DAEWOO CORPORATION SEQ	JL. KOREA		
			127	
Place & Date of Sur	vey: <u>Oct. 8, 2000 at the</u>	steel scrap wharf of F	OSCO, Kwangyang, Korea	
SURVEYORS & SWOR	CERTIFY THAT we, the N MEASURERS'CORPORAT	ION, have this date insp		
		ready for loading <u>Liqu</u>	ıd Pitch in bulk	
#1 ch			nb(e) are tected	
	Previ	ous Cargo : Liquid Pitc	h	

This inspection was made and certificate is given without prejudice to any question of rights and/or liabilities on any persons interested or concerned.



(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

TELEPHONE

"KOMSA" SEOUL

COPY

SEOUL 754-8106-8

YOSU 62-4589

C. P. O. BOX 3121 SEOUL

PUSAN 44-5786

62-6599

TLX, NO, KOMSA K24945

ULSAN 72-7627

KWANGYANG 791-3950

#### **SURVEY REPORT**

(Sampling and Analysis Certificate)

Report No. <u>C-001009-02-A</u>

Innued at: Kwangyang Kacan

Date: Oct. 0, 2000

THIS IS TO CERTIFY THAT we the undersigned Korea Marine Surveyors & Sworn Measurers Corporation. Kwangyang did at the request of Messrs, <u>DAEWOO CORPORATION SEOUL</u>, KOREA attend at the laboratory in the premises of the manufacturer

in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:

#### **DESCRIPTION**

Name of Carrier . " OSPREY ARROW "

Commodity

: Liquid Pitch in bulk : 2,474,917 M/Tons

Quantity Port from/to

: Kwangyang, Korea to Portland, Oregon, U.S.A.

2.0 MAX.

#### SAMPLING/ANALYSIS

MESOPHASE(<10 µ m)

The analysis for the above samples was carried out on attendance of the undersigned, the General Marino Surveyor, at the laboratory in the premises of the manufacturer on Oct. 9, 2000 and resulted as follows:

TEST ITEM & INIT RESULTS SPEC. METHOD SOFTENING POINT(C) 108~112 10R, A ASTM D 3104-87 QUINOLINE INSOLUBLE(\*) 8~12 9.8 ASTM D 2318-86 TOLUENE INSOLUBLE(%) 28 MIN. 28.1 ASTM D 4072-91 COKING VALUE(\*) 55.0 MIN. 58.2 ASTM D 2416-84

DISTILLATION TO 360 C(\*) 1.03 ASTM D 20-91 3.0 MAX. SPECIFIC GRAVITY(g/cm3) 1.319 ASTM D 2320-81 1.31 MIN. ASH(%) 0.30 MAX. 0.12 ASTM D 2415-66 CODIUM(FFF) DDO HAN. 70 A. A. HETHOD MOISTURE(\*)(0.1 ASTM D 95-83 0.30 MAX.

This report is given without prejudice.

MARINE SURVEYORS & SWORN RERS CORPORATION Staff Surveyor

0, 52

Koppers003952

ASTM D 4616-91

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

TELEPHONE

"KOMSA" SEOUL

TLX, NO. KOMSA K24945

COPY

SEOUL 754-8106-8

YOSU

DONGHAD

62-4589 33-1887

FAX. 754 - 8109

ULSAN 72-7G27 INCHON 763-9501-2 MOKETO 43 1205

2474

**EURVEY REPORT** 

KWANGYANG 761 3000

(Liquid Gauging of Tankers)

Report No. \_G-001009-02-B

Applicant: DAEWOO CORPORATION SEOUL, KOREA

Date Oct. 9, 2000

" OSPREY ARROW "

Gross tonnage:

Port from and to: Kwangyang, Korea to Portland, Oregon, U.S.A.

Place & Date of Survey: Oct. 9, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

Description of cargo Quantity on Invoice/B/L Remarks <u>Density</u> Liquid Pitch in bulk 2,474,917 M/Tons 1,22639 196,4 ℃ 1.22621 198,8 0

We horeby contify that the following figures are correct to our best knowledge, based on the Tank Scales provided on board.

Tank No.	Gauging (Ull)	Corrected (Ull,)	Water	App.Volume (K/L)	<u>Татр</u> (°С)	<u>Density</u>	<u>Weight</u> (M/T)
No. 1 No. 2 TOTAL:	6, 408 6, 513 2 TANKS	6. 108 6, 513	-	2, 658, 500 2, 295, 332	196. <b>4</b> 196. <b>8</b>	1, 22639 1, 22621	3, 260, 358 <u>7,814, 559</u> 6,074, 917 M/T
	Remarks :	•	B/L Fig	tity were dist	ONE: -	2, 474, 917	M/Tons

THAT IS TWO THOUSAND FOUR HUNDRED AND SEVENTY FOUR DECIMAL NINE ONE SEVEN(2,474,917)M/T ONLY.

Ship's Draft: Fore 8,200 m

After 8,700 m

Trim 0.500 m by the stern

MARINE SURVEYORS &

MEASURERS 'CORPORATION

Surveyor.

Ju

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. 0-001009-02-0

Issued at: Kwankanik. Konea

Date <u>Our 9, 2000</u>

#### SURVEY REPORT

( Certificate of Sampling )

THIS IS TO CERTIFY THAT WE, the undersigned surveyor to Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang, Korea, did, at the request of Messrs.

DAEWOO CORPORATION SEOUL, KOREA attend at the tank of manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:-

#### DESCRIPTION

Name of Carrier

: " OSPREY ARROW "

Voy. No. : 127

Commodity

: Liquid Pitch in bulk

B/L Quantity

: 2,474.917 M/Tons

Port from/to

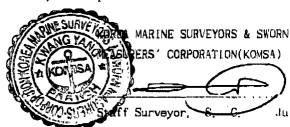
: Kwangyang, Korea to Portland, Oregon, U.S.A.

#### SAMPLING.

Attending at the above mentioned place in company with parties concerned, the undersigned inspected sampling came furnished by the applicant and found them cleaned and dry and then samples were taken in accordance with sampling method and plugged immediately/tightly by the undersigned surveyor.

COMPONENT	<u>QUANTITY</u>	<u>DISTRIBUTED</u>
BASED ON	3 Cans	One(1) can retained by this corporation.
ISO STANDARD		One(1) can to laboratory for analysis.
6257-1980(E)		One(1) can on board a plane for receiver at destination.

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-001009-02-D

Issued at: Kwangyang, Korea

Date: Oct. 9, 2000

|U:८86 3681

#### **COPY**

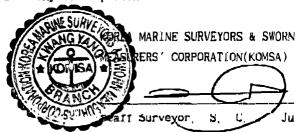
#### CERTIFICATE OF CARGO LOADING BY TANK

I horoby certify that, as the result of reading of the level gauge for the subject cargo and calculation of each tank on board the M.V "OSPREY ARROW", the following quantities of Liquid Pitch word found to be loaded into the tanks as shown below: -

No. 2 Tank

: 2,474,917 M/Tons

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



# **KOSCO**

KOREA STEEL CHEMICAL CO. LTD.

12, 13TH FLOOR, SAMDO BLDG., 1-170,
SUNHWA-DONG, CHUNG-GU, SEOUL, KOREA
TEL: (02) 3705-7000 FAX: (02) 771-0741~8

# ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC. 7540 NW SAINT HELENS ROAD, PORTLAND, OREGON 97210-3663

TEL: 503-286-3681 FAX: 503-285-2831

ATTN: MR. AMOS S. KAMERER

DATE: AUG. 07, 2000

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS;

► INVOICE NO.

: D000012578 DATED AUG. 04, 2000

**▶ QUANTITY** 

: 2,868.461MT OF LIQUID PITCH

**► AMOUNT** 

► ON BOARD DATE : AUG. 04, 2000

▶ DUE DATE

. CED 40 2000

DOE DATE

: SEP. 18, 2000

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE SEP. 18, 2000 TO THE BANK AND ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

▶ VESSEL NAME

: M/V "OSPREY ARROW"

▶ FROM KWANGYANG KOREA, TO PORTLAND, OREGON, U.S.A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HEREWITH ;

1. BILL OF LADING

: 2 ORIGINALS + 2 COPIES

2. COMMERCIAL INVOICE

: 3 ORIGINALS

3. CUSTOMS INVOICE

: 3 ORIGINALS

4. CERTIFICATE OF ORIGIN

: 1 ORIGINAL + 1 COPY

5. CERTIFICATE OF ANALYSIS

: 3 ORIGINALS

6. CERTIFICATE OF WEIGHT

: 3 ORIGINALS

7. CERTIFICATE OF VESSEL CLEANLINESS

: 3 ORIGINALS

BEST REGARDS,

J. W. LEE

GENERAL MANAGER

KOREA STEEL CHEMICAL CO., LTD



We sequired ISO 9002 and ISO 14001 certification

CONFIDENTIAL Koppers003956

Fr. Q. Kinvolzons Bogiryskeri AVB, S5 Toldbodgede, DK-1253 Copenhagen R by authority of The Ballic and International Maritime Council (BIMCO), Copenhagen, Copyright.

Koppers003957

BARWIL HYOP WOON AGENCIES LTD. AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL

# **COMMERCIAL INVOICE**

HVC0000008247

1)Shipper/Exporter DAEWOO CORPORATION	М	8)No. & date of invoice 0000012578	AUG. 04, 2000	
C.P.O. BOX 2810 S	C.P.O. BOK 2810 SEOUL KOREA			
2)For Account & Risk of Messrs.  KOPPERS INDUSTRIE  C/O PORT OF PORT	•	10)L/C issuing bank		
PORTLAND OREGON,		11)Remarks:  * F/O NO.OMO-1670-2 DATED JAN. 07, 2000  - THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE SEP. 18, 2000		
3)Notify Party  KOPPERS INDUSTRIE  C/O PORT OF PORTI	AND			
4)Port of Loading KWANGYANG, KOREA	5)Final destination PORTLAND, OREGON, U.S.A	ORIG		
6)Carrier OSPREY ARROW	7)Sailing on / about AUG. 04, 2000	COM/HG1:	UMIANE	
12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit	16)Unit-price 16)Amount	

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

2,868.461M/T

- \* INVOICE NO. : 0000012578 DATED AUG. 04, 2000
- \* PAYMENT INSTRUCTION
  PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
  TO ACCOUNT NO. 361-81-013944 OF SHINHAN BANK, SEODAEMUN BRANCH,
  SEOUL, KOREA IN FAVOUR OF KOREA STEEL CHEMICAL CO., LTD. AND
  PLEASE INDICATE OUR REFERENCE NO. 0000012578 WHEN YOU REMIT
  THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA CABLE: DAEWOO SEOUL TELEX: DAEWOO K23341/4,K24298 TELEPHONE: 759-2114 18) Signed by <

DAEWOO CORPORATION

# -c-((18145) |U:c86 3681 | PHGE. 67

DEPARTMENT OF THE TREASURY UNITED STATES CUSTOMS SCRUICE 19 U.S. C. 1481, 1482, 1484

#### SPECIAL CUSTOMS INVOICE

(Use separate invoice for purchased and non-purchased goods.)

form Approved.

O. M. B. No. 48-R0342

19 0. 5. C. 1481, 1482, 1484			-T				U. M. O. NO. 48-10034
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IO ORDER			7. ORIGIN OF		, U.S.A.		
•				PUBLIC O	F KORE	٩.	:
S-NOTIFY PARTY #			9. TERMS OF	SALE, PAY	MENT, AND	DISCOUR	· T
KOPPERS INDUST							
C/O PORT OF PO			- F.O.B.	KWANGY.	ANG, KO	DREA	
PORTLAND OREC	30N, U.S.A.						
10. ADDITIONAL TRANS	PORTATION IN	FOMATION #	* T/T REN	MITTANCE	45 DAY	S AFTE	R B/L DATE
	WANGYAN						
		OREGON, U.S.A		,			
CARRIER : OS SAILING ON : AI	SPREY ARR UG. 04. 200		II. GURRENCY USE	0	12 EXCH, R		13, DATE ORDER ACCEPTED
14,	1 5.	16.		17	UNIT	PRICE	20
MARKE AND NUMBERS ON SHIPPING PACKAGES	NUMBER OF PACKAGES	FULL DESCRIF OF GOODS		QUANTITY	18, HOME MARKET	INVOICE	TOTALS
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N/M IN		LIQUID PITCH					
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21 If the production of a tools, engineering war	hese goods involved k: and the value is	furnishing goods or sorvices to the sol not included in the invoice price, check	lor(e.g. assists such box(21) and explain t	ur dies, mulds, mlow.	22. PACKIN	IG CØSTS	
	27. DECLARATI	ON OF SELLER/SHIPPER(OR AC	ENT)			ATIONAL	
I declare:	ebates, drawbocks	or If the goods were not s	ald or agrood to be	sold, I have	24. DOME		
bounties allowed up	poin the exportation hacked box(A) and	(B) checked box(B) and hav		9 the price	FREIGHT	CHARGES	
itomized separately I further declare that there is	v below.	I would be willing to rea	CHIVE.		25. INSUN		
differing from this one (unless below) and that all statement	otherwise describ	(5) 515111115112 51 5			26. OTHER	COSTS	
invoice and declaration are tra	ue and correct.	V DAEWO	O CORPO	RATION	[Specif	, Below)	
79. THIS SPACE FOR C	NA PHIUNITHO	SWERS	1910				
			1000				

THIS FORM OF INVOICE REQUIRED GENERALLY IF RATE OF OUT? BASED UPON OR REQULATED BY VALUE OF GOODS AND PHRCHASE PRICE OR VALUE OF SHIPMENT EXCREDS. SIDE OTHERWISE USE COMMENCIAL INVOICE

Authorized Signature

Form No KCCI-2 1998

2. Consigner

TO ORDER

DAEWOO CORPORATION
C.P.O. BOX 2610 SECUL KOREA

ORIGINAL CERTIFICATE OF ORIGIN

issued by

THE KOREA CHAMBER OF COMMERCE & INDUSTRY

Seaul, Republic of Karaa

원 산 지 증 명 서

대한상공회의소

4. Buyor (if other than consignee)

KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A

3. Particulars of Transport (where required)

\* FROM : KWANGYANG, KOREA

\* TO : PORTLAND, OREGON, U.S.A

\* VESSEL NAME :

SAILING DATE: AUG. 04, 2000

NAME : OSPREY ARROW

5. Country of Origin

The Republic of Korea

6. Invoice Number and Date

0000012578

AUG. 04, 2000

7. Shipping Marks

8. Number and Kind of Packages; Description of Goods

9. Quantity. Gross Weight or Measurement 2,868.461M/T

(QUANTITY)

N/M IN BULK

LIQUID PITCH

\* PURCHASE ORDER NO. : OMO-1670-2

\* INVOICE NO. : 0000012578 DATED AUG. 04, 2000

10. Other Information

The Korea Chamber of Commerce & Industry hereby certifies, on the basis of relevant invoice and other documents, that the above mentioned goods ariginate in the country shown in column 5.

514354

07, CA 2000 REALDING TO STORMERIE STORM TOTALISM DIRECTOR STORMER

THE KOREA CHAMBER OF COMMERCE & INDUSTRY

CONFIDENTIAL

Koppers003960

# KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION (RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

"KOMSA" SEOUL C, P.O. BOX 3121 SEOUL TLX, NO, KOMSA K24945 FAX. 754 - 8109

ELEGRAMS:

COPY

TELEPHONE SEOUL 754-8106-8 YOSU 62-4589 PUSAN 44-5786 62-6599 ULSAN 72-7627 DONGHAE 33-1887 INCHON 763-9501 · 2 2474 MOKPO 43-1205 KWANGYANG 791-3950 POHANG 72-3942 KUNSAN 2-9350

Report No. G-000804-02 Issued at: Kwangyang Korea Date: Aug. 4, 2000

#### TANK DRY CERTIFICATE

Applicant Messrs. DAEWOO CORPORATION SECUL, KOREA
Name of Vessel: "OSPREY ARROW" Voy. No126
Place & Date of Survey: Aug. 3, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea
THIS IS TO CERTIFY THAT we, the undersigned surveyors to KOREA MARINE
SURVEYORS & SWORN MEASURERS'CORPORATION, have this date inspected cargo tank(s)
Nos.: No. 2 TANK
and found same to be empty, dry, suitable and ready for loading <u>Liquid Pitch in bulk</u>
Heating coils in the following of the above inspected tank(s) are tested  with steam presure and found tight
Previous Cargo : Liquid Pitch

This inspection was made and certificate is given without prejudice to any question of rights and/or liabilities on any persons interested or concerned.

MARINE SURVEYORS & SWORN

WING PROSPECTION (KOMSA)

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OF

CONFIDENTIAL Koppers003961

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

TELEPHONE

"KOMSA" SEOUL

COPY

SEOUL 754-8106-8

YOSU

C. P. O. BOX 3121 SEOUL TLX. NO. KOMSA K24945

PUSAN 44-5786

62-4589 62-6599

\_ \_ \_ \_

ULSAN 72-7627

KWANGYANG 791-3950

#### **SURVEY REPORT**

(Sampling and Analysis Certificate)

Report No. G-000804-02-A

herewith report as follows:

lssued at: Kwangyang, Korea

Date: Aug. 4, 2000

THIS IS TO CERTIFY THAT we, the undersigned Korea Marine Surveyors & Sworn Measurers Corporation, Kwangyang did at the request of Messrs. <u>DAEWOO CORPORATION SEOUL</u> KOREA attend at the laboratory in the premises of the manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and

DESCRIPTION

Name of Carrier: " OSPREY ARROW "

Commodity : Liquid Pitch in bulk Quantity : 2,868.461 M/Tons

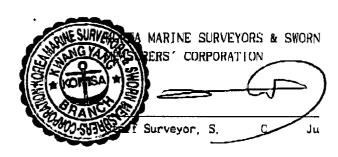
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

#### SAMPLING/ANALYSIS

The analysis for the above samples was carried out on attendance of the undersigned, the General Marine Surveyor at the laboratory in the premises of the manufacturer on Aug. 4. 2000 and resulted as follows:

TEST ITEM & UNIT	SPEC.	RESULTS	METHOD
COEFFERITAGE BOTATE ( 771 )	100~110	100.0	ACTV D 2104 87
SOFTENING POINT(C)	108~112	109, 2	ASTM D 3104-87
QUINDLINE INSOLUBLE(%)	8~12	9,7	ASTM D 2318-86
TOLUENE INSOLUBLE(*)	28 MIN.	28.1	ASTM D 4072.91
COKING VALUE(*)	55.0 MIN,	60. <b>3</b>	ASTM D 2416-84
DISTILLATION TO 360°C(*)	3.0 MAX.	0,68	ASTM D 20-91
SPECIFIC GRAVITY(g/cm3)	1.31 MÏN.	1.320	ASTM D 2320-81
$ASH(\pi)$	0.30 MAX.	0, 14	ASIM D 2415-66
SODIUM(ppm)	220 MAX.	122	A. A. METHOD
MOISTURE(*)	0.30 MAX,	<0.1	ASTM D 95-83
MESOPHASE(<10 μm)	2,0 MAX,	0.18	ASTM D 4616-91

This report is given without prejudice.



CONFIDENTIAL Koppers003962

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL TLX,NO,KOMSA K24945 FAX, 754 - 8109

TELEPHONE
SEOUL 754-8106-8 YOSU

YOSU DONGHAE

62-4589

ULSAN 72-7627

33-1887

INCHON 763-9501-2

2474

SURVEY REPORT

MOKPO 43-1205

KWANGYANG 761-3950

(Liquid Gauging of Tankers)

Report No. <u>G-000804-02-B</u>

Date Aug. 4, 2000

Applicant: Name of Vessel: DAEWOO CORPORATION SEOUL, KOREA

" OSPREY ARROW "

Gross tonnage:

Port from and to: Kwangyang, Korea to Portland, Oregon, U.S.A

Place & Date of Survey: Aug. 4, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

2,868.461 M/Tons

<u>Description of cargo</u> Liquid Pitch in bulk

Quantity on Invoice/B/L

Density 1,22653 Remarks

1, 22653 196, 1 °C 1, 22662 195, 9 °C

We hereby certify that the following figures are correct to our best knowledge, based on the Tank Scales provided on board.

Tank No.	Gauging (U11.)	Corrected (U11,)	Water	App Volume (K/L)	Temp (°C)	<u>Density</u>	Net Volume (M/T)
No. 1 No. 2 TOTAL:	5. 350 4. 870 2 TANKS	5. 350 4. 870	-	2, 921, 980 2, 677, 736	196, 1 195, 9	1,22653 1,22662	3, 583, 896 3, 284, 565 6, 868, 461 M/T
	Remarks :	-	-	tity were dis ch are as fol		based on the	e portion of
	·			ures er Other B/L			
j							į

THAT IS TWO THOUSAND EIGHT HUNDRED AND SIXTY EIGHT DECIMAL FOUR SIX ONE(2,868,461)M/TONS ONLY.

Ship's Draft: Fore 7,100 m

After 8.400 m

Trim 1.300 m by the stern



MARINE SURVEYORS &
MEASURERS CORPORATION

'f Surveyor

.

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-000804-02-C

Issued at: Kwangyang, Korea

Date: Aug. 4, 2000

# SURVEY REPORT

( Certificate of Sampling )

THIS IS TO CERTIFY THAT WE, the undersigned surveyor to Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang, Korea, did, at the request of Messrs.

DAEWOO CORPORATION SEOUL. KOREA attend at the tank of manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:-

#### **DESCRIPTION**

Name of Carrier

: " OSPREY ARROW "

Voy. No. : 126

Commodity

: Liquid Pitch in bulk

B/L Quantity

: 2,868,461 M/Tons

Port from/to

: Kwangyang, Korea to Portland, Oregon, U.S.A

#### SAMPLING

Attending at the above mentioned place in company with parties concerned, the undersigned inspected sampling cans furnished by the applicant and found them cleaned and dry and then samples were taken in accordance with sampling method and plugged immediately/tightly by the undersigned surveyor.

COMPONENT	<u>QUANTITY</u>	DISTRIBUTED
BASED ON	3 Cans	One(1) can retained by this corporation.
ISO STANDARD		One(1) can to laboratory for analysis.
625 <b>7</b> -1980(E)		One(1) can on board a plane for receiver at destination.

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.

Surveyor,

ARINE SURVEYORS & SWORN
S' CORPORATION (KOMSAL

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. <u>G-000804-02-D</u>

Issued at: Kwangyang, Korea

Date: Aug. 4, 2000

COPY

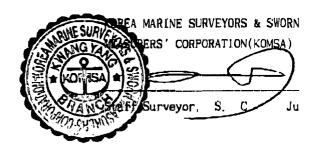
#### CERTIFICATE OF CARGO LOADING BY TANK

I hereby certify that, as the result of reading of the level gauge for the subject cargo and calculation of each tank on board the M.V "OSPREY ARROW", the following quantities of Liquid Pitch were found to be loaded into the tanks as shown below:-

No. 2 Tank

: 2,868,461 M/Tons

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



Koppers003965

**KOSCO** 

KOREA STEEL CHEMICAL CO. LTD.

12, 13TH FLOOR, SAMDO BLDG., 1-170,
SUNHWA-DONG, CHUNG-GU, SEOUL, KOREA
TEL: (02) 2706-7000 FAX: (02) 771-0741-8

# ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC. 7540 NW SAINT HELENS ROAD, PORTLAND, OREGON 97210-3663

TEL: 503-286-3681 FAX: 503-285-2831

ATTN : MR. AMOG G. KAMERER

DATE: MAY 29, 2000

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS;

► INVOICE NO. : 0000007850 DATED MAY 24, 2000
► QUANTITY : 4,569.728MT OF LIQUID PITCH

► AMOUNT

► ON BOARD DATE

: MAY 24, 2000

► DUE DATE : JULY 08, 2000

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE JULY 08, 2000 TO THE BANK AND ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

► VESSEL NAME · : M/V

: M/V "OSPREY ARROW"

FROM KWANGYANG KOREA, TO PORTLAND, OREGON, U.S.A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HEREWITH ;

1. BILL OF LADING : 2 ORIGINALS + 2 COPIES

2. COMMERCIAL INVOICE : 3 ORIGINALS
3. CUSTOMS INVOICE : 3 ORIGINALS

4. CERTIFICATE OF ORIGIN : 1 ORIGINAL + 1 COPY

5. CERTIFICATE OF ANALYSIS : 3 ORIGINALS
6. CERTIFICATE OF WEIGHT : 3 ORIGINALS
7. CERTIFICATE OF VESSEL CLEANLINESS : 3 ORIGINALS

BEST REGARDS.

J. W. LEE

GENERAL MANAGER

KOREA STEEL CHEMICAL CO., LTD



We acquired ISO 9002 and ISO 14001 certification

DDE NAME: "CHEMTANKWAY			NON-NEGOTIABLE		rHut:
DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL F			WAYBILL	Anigroneo Ná.	•
onsignos (not la arden	,				
TO ORDER					
lottly address		· .			
KOPPERS INDUSTRIES, IN C/O PORT OF PORTLAND PORTLAND, OREGON, U.S					
OSPREY ARROW V.125	Port of loading KWANC	GYANG, KOREA	firs'	roriginal	
on of discharge PORTLAND, OREGON, U.S	S.A				
Jescription of çargo			-	Weight (in metric tons)	
N/M IN BULK	LIQUID PIT	CH		4,569.728 M/T	
	* PURCHASI	E ORDER NO. : O	M0-1670 <b>-</b> 2		
	" FREIGHT F	PAYABLE AS PER	CHARTER PAR	TY "	
	•			ON BOARD DATE:	
				MAY 24, 2000	
				•	
		•			
	P	articulars declared	by the Shipper		
Issued pursuant to Charter Par hereunder		RECEIVED or retion in apparer weight, volume, o so near thereto a	n board the cargo sint good order and quality and value unas the Vessel may be and or the Westel	pecified above, according to Ship condition – unless otherwise sta known, for delivery at the port of safely get, always aflost. Il will be delivered to the Party na	dischar
Charter Party (Code name, pli date of Issue)	ace and	signee or its auth mentary formalitie to the proper par	orised agent, on pries. The Carrier to 6x tv. However, in case	oduction of proof of Identity without of ordinate with a solution of proof of Identity without without of Identity without of Identity without with without without without without without without without wi	out any di Nory is n

FOR CONDITIONS OF CARRIAGE SEE OVERLEAF. Freight payable at Place and date of Issue Freight payable in accordance therewith. SEOUL, KOREA - MAY 24, 2000 Signature BARWIL HYOF WOON AGENCIES LTD. AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL Printed and sold by Renaula and State Control of the Balling of the Balling and International Maritime Council (BIMCO), Copyright.

# **COMMERCIAL INVOICE**

HVC000005620

1)Shipper/Exporter DAEWOO CORPORATIO	• · · ·	9)No. & date of invoice MAY 24, 2000				
C.P.O. BOX 2810 S	EOUL KOREA	9)No. & date	ofuc			
2)For Account & Risk of Messi KOPPERS INDUSTRIE	s, INC.	10)L/C Issuit	ng bank			
C/O PORT OF PORTI PORTLAND OREGON,		11)Remarks * 9/0	: D NO.OMO-1670-2 E	DATED JAN. C	07, 2000	
3)Notify Party KOPPERS INDUSTRIE C/O PORT OF PORTI PORTLAND OREGON,	AND		IS INVOICE AMOUNT OR BEFORE JUL. O		PAID	
I)Port of Loading KWANGYANG, KOREA	5)Final destination PORTLAND, OREGON, U.S.A.	, , ,	<b>Winne</b>		<b>:</b>	
6)Carrier OSPREY ARROW	7)Salling on / about MAY 24, 2000				· .	
12)Marks and numbers of PKG	SS 13)Description of goods	<u> </u>	14)Quantity/Unit	16)Unit-price	16)Amount	

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

4,569.728M/T

+ INVOICE NO. : 0000007850 DATED MAY 24, 2000

\* PAYMENT INSTRUCTION
PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
TO ACCOUNT NO. 361-81-013944 OF SHINHAN BANK, SEODAEMUN BRANCH,
SEOUL, KOREA IN FAVOUR OF KOREA STEEL CHEMICAL CO., LTD. AND
PLEASE INDICATE OUR REFERENCE NO. 0000007850 WHEN YOU REMIT
THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA CABLE: DAEWOO SEOUL

TELEX: DAEWOO K23341/4,K24296

**TELEPHONE: 759-2114** 

18) Signed by \_

DAEWOO CORPORATION

# ORIGINAL

DEPARTMENT OF THE UNITED STATES CUSTOMS SE 19 U. S. C. 1481, 1482, 1494		SPECIAL CUS				Form Approved. O. M. B. No. 48-R0342
DAEWOO CORP	ΟΡΑ ΤΙΟΝΙ		2. DOCUMENT	NR. *		AND DATE .
C.P.O. BOX 2810		DREA	4. REFERENC	:E\$ <b>=</b>	MAY 24,	
TO ORDER				T OF PORT	LAND	
TO ORDER			7. ORIGIN OF		OF KOREA	
B. NOTIFY PARTY .			9. TERMS OF	SALE, PAYN	ENT. AND DISCO	TAUC
KOPPERS INDU C/O PORT OF P PORTLAND ORI	ORTLAND		- F.O.É	3. KWANG	YANG, KORE	٨
ro :	KWANGYAN PORTLAND	NG, KOREA , OREGON, U.S.A	· T/T R	EMITTANO	CE 45 DAYS AF	TER B/L DATE
CARRIER : SAILING ON :	OSPREY AR MAY 24, 20		11. CURRENCY US	EO	12, EXCH. RATE	23, DATE ONDER ACCEPTED
14, MARKS AND NUMBERS ON SHIPPING PACKAGES	NUMBER OF PACKAGES	FULL DESCRIP OP GOODS	TION	17. QUANTITY	UNIT PRICE	20 INVOICE TOTALS
			4	,569.728M	/Ts	
N/M IN		LIQUID PITCH				
BULK	P	URCHASE ORDER NO.	: OMO-1670	-2		·
(//////////////////////////////////////	,,,,,,,,,,,,		(((((((((((((((((((((((((((((((((((((((	111111111111111111111111111111111111111	<i> </i>	
		furnishing goods or services to the salls not included in the invoice price, check b			ZZ. PACKING COŞT	·s
l declare :		ON OF SELLER/SHIPPER (OR AGE			29. OCEAN OR INTERNATIONAL PREIGHT	L
Ti there are any To bounties allowed up	on the exportation	(B) the goods were not so	-		24. DOMESTIC FREIGHT CHARGE	5
of goods, I have clitemized separately I further declare that there is	below.	I would be willing to rece	rtve.		25. INSUMANCE	
differing from this one (unless bolow) and that all statements invoice and declaration are tru	otherwise describe contained in this	(C) CICHÁTURE OF CE	LLER/SHIPPER (	OR ACENT):	AU. WINER COSIS	
PS. THIS SPACE FOR CO		WERG		<del>OAEWO!</del>	o CORPOR	ATION
				1/2	1th	
					Authorized Sig	nature

NOT REQUIRED DEMENDALY IT HAVE OF OUTH BASEN FROM FOR STEPN OF VALUE OF CHIEF AND PIRETHASE PRICE OR VALUE OF SHOPMENT FREFER. Q AND NEURONICE FIGURE FROM

# Not recessary for U. S. Customs purposes.

Customs Form 5515 (12-20-76)

Form No.KCCI-2 1998

2. Consigner

TO ORDER

1. Soller DAEWOO CORPORATION

C.P.O. BOX 2810 SEOUL KOREA

ORIGINAL

CERTIFICATE OF ORIGIN

issued by

THE KOREA CHAMBER OF COMMERCE & INDUSTRY

Seaul, Ropublic of Korea

원 산 지 증 명 서

대한상공회의소

4. Buyer (if other than consignes) KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A

3. Particulars of Transport (where required)

\* FROM : KWANGYANG, KOREA

: PORTLAND, OREGON, U.S.A.

• SAILING DATE:

MAY 24, 2000

6.7.4

\* VESSEL NAME :

OSPREY ARROW

5. Country of Origin

The Republic of Korea

6. Invoice Number and Date 0000007850

MAY 24, 2000

7. Shipping Morks

B. Number and Kind of Packages; Description of Goods

4,569.720M/T Weight or Measurement (QUANTITY)

N/M IN BULK

LIQUID PITCH

\* PURCHASE ORDER NO. : OM0-1670-2

\* INVOICE NO. : 0000007850 DATED MAY 24, 2000

10. Other Information

The Kome Chamber of Commerce & Industry hereby curtifies, on the basis of relevant invaice and other documents, that the above mentioned goods originate in the country shown in column 5.



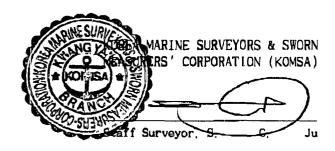
THE KOREA CHAMBER OF COMMERCE & INDUSTRY



(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:		•	TELEPHONE	
"KOMSA" SEOUL		SEOUL 754-8106-8	YOSU 62-4	
C. P. O. BOX 3121 SEOUL		PUSAN 44-5786	62-6	
TLX, NO. KOMSA K24945		ULSAN 72-7627	DONGHAE 33-1	
FAX. 754 - 8109	COPY	INCHON 763-9501-2		474
		MOKPO 43-1205 POHANG 72-3942	KWANGYANG 791-3 KUNSAN 2-9	1950 1350
		FUNANU 72-3342	אואסאוטא 2-3	330
Report No. G-000524-06	lesued at: Kwangyang	Korea	Date: <u>May 24, 2000</u>	j
			,	
7	AND DOV CODTICIOATE			
1	ANK DRY CERTIFICATE			
		•		
Applicant Messrs <u>DAEWOO CORPORA</u>	TION SECUL, KOREA			
		40.		
Name of Vessel: OSPREY ARROW	Voy.	No. 125		
Place & Date of Survey: May 23, 20	00 at the steel scrap who	arf of POSCO, Kwang	yang, Korca	_
-				
	_			
THIS IS TO CERTIFY THAT				
SURVEYORS & SWORN MEASURERS'C	ORI ORATION, have this d	ate inspected cargo	tank(p)	
NOS . NO 1 AND NO 2 TANK				
			•	
		f		
and found same to be empty, dry, suit	able and ready for loading	ng Liquid Pitch in	bu l k	
Heating coils in the fol	- · · · · · · · · · · · · · · · · · · ·			
withsteam	presure and found tight			<del></del>
	Previous Cargo : Liqu	uid Pitch		—
	116410NB OFFICE . DIGE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

This inspection was made and certificate is given without prejudice to any question of rights and/or liabilities on any persons interested or concerned.



(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

TLX, NO. KOMSA K24945

TELEPHONE

"KOMSA" SEOUL

C. P. O. BOX 3121 SEOUL

COPY

SEOUL 754-8106-8

YOSU

PUSAN 44-5786

62-4589 62-6599

ULSAN 72-7627

KWANGYANG 791-3950

#### SURVEY REPORT

(Sampling and Analysis Certificate)

Report No. G-000524-06-A

lssued at: Kwangyang, Korea

Date: May 24, 2000

THIS IS TO CERTIFY THAT we the undersigned Korea Marine Surveyors & Sworn Measurers Corporation, Kwangyang did at the request of Messrs, DAEWOO CORPURATION SECUL, KOREA attend at the laboratory in the premises of the manufacturer

in order to draw out a sample of the shipping cargo to be leaded on board the undernoted vessel and herewith report as follows:

#### DESCRIPTION

Name of Carrier: " OSPREY ARROW "

Commodity

: Liquid Pitch in bulk

Quantity

4, 569, 728 M/Tons

Port from/to

: Kwangyang, Korea to Portland, Oregon, U.S.A

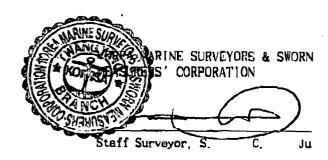
#### SAMPLING/ANALYSIS

The analysis for the above samples was carried out on attendance of the undersigned the General Marine Surveyor, at the laboratory in the premises of the manufacturer

on May 23 2000 and resulted as follows:

TEST ITEM & UNIT	SPEC.	RESULTS	METHOD
SOFTENING POINT(C)	108~112	108.4	ASTM D 3104-87
QUINOLINE INSOLUBLE(%) JULULNE INSOLUBLE(%)	8~12 25 MAN.	10.1	ASTM D 2318-86
COKING VALUE(%)	55, 0 MIN.	59, <b>5</b>	ASTM D 2416-84
DISTILLATION TO 360℃(*)	3.0 MAX,	0, 96	ASTM D 20-91
SPECIFIC GRAVITY(g/cm3)	1.31 MIN,	1,321	ASTM D 2320-81
SUNTUM(PPM)	0.30 MAX.	0.11 02	ASTM D 2415-66 A A METHOD
MOISTURE(*)	0.30 MAX.	<0.1	ASTM D 95-83
MESOPHASE(<10 μ m)	2.0 MAX.	0. 20	ASTM D 4616-91

This report is given without prejudice.



MD-3M II:MY THE FRUIT:KUSCU THR

#### KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL

TLX. NO. KOMSA K24945

FAX. 754 8109

TELEPHONE

SEOUL 754-8106-8

ുഡ:∠86 3681

YOSU

DONGHAE

62-4589

ULSAN 72-7627

33-1887

INCHON 763-9501-2

2474

SURVEY REPORT

MOKPO 40 1205

066E-104 ANNTONIAMS

(Liquid Gauging of Tankers)

Report No. G-000524-06-B

DAEWOO CORPORATION SEOUL, KOREA

Applicant: Name of Vessel:

" OSPREY ARROW "

Gross tonnage:

Port from and to: Kwangyang, Korea to Portland, Oregon, U.S.A

Place & Date of Survey: May 24, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

Description of cargo Liquid Pitch in bulk Quantity on Invoice/B/L 4,569,728 M/Tons

<u>Density</u> 1.22634

Date May 24, 2000

Remarks 196.5 °C

1.22662

195.9 ℃

We hereby certify that the following figures are correct to our best knowledge, based on the Tank Scales provided on board.

Tank No.	Gauging (UII.)	Corrected (Ull.)	<u>Water</u>	App, Volume (K/L)	Temp	Density	<u>Net Volume</u> (M/T)		
No. 1 No. 2 TOTAL :	2, 200 2, 170 2 TANKS	2, 200 2, 170	- -	3, 690, 400 3, 296, 900	196.5 195.9	1.22634 1.22662	4,525,685 4,044,043 8,569,728 M/T		
	Remarks :- Ship's on board quantity were distributed based on the portion of each B/L figures which are as follows:-  B/L Figures								
			rement	er Other B/L ,		4,000.000	, in toris		
		_							

THAT	ΙE	FOUR THOU	JBAND FIVE	HUNDRED	ANU	SIXTY	NINE	DECIMAL	SEVEN	TWO	EIGHT(4	569.	728)M/TON	\$

Ship's Draft: Fore 10.00 m

After 10,00 m

Trim EVEN KEEL

MARINE SURVEYORS &

MEASURERS'CORPORATION

Surveyor, S.

Ju

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-000524-06-C

Issued at: Kwangyang, Korea

Date: May 24 2000

10:286 3681

# SURVEY REPORT

( Certificate of Sampling )

THIS IS TO CERTIFY THAT WE, the undersigned surveyor to Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang, Korea, did, at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the tank of manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows: -

#### DESCRIPTION

Name of Carrier

: "OSPREY ARROW "

1,669,728 M/Tous

Voy, No. : 125

Commodity

: Liquid Pitch in bulk

R/I Nuantity Port from/to

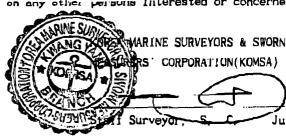
: Kwangyang, Korea to Portland, Oregon, U.S.A

#### SAMPLING

Attending at the above mentioned place in company with parties concerned, the undersigned inspected sampling cans furnished by the applicant and found them cleaned and dry and then eamples were taken in accordance with sampling method and plugged immediately/tightly by the undersigned surveyor.

COMPONENT	QUANTITY	<u>DISTRIBUTED</u>
BASED ON	3 Cans	One(1) can retained by this corporation.
ISO STANDARD		One(1) can to laboratory for analysis.
6257-1980(E)		One(1) can on board a plane for receiver at destination.

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



10:58P 7PRI 82-2-1120145 שם-גש 11:שו ועב דאטון:Kustu IHK

#### KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-000524-06-D

Issued at: Kwangyang, Korea

Date: May 24, 2000\_

# COPY

CERTIFICATE OF CARGO LOADING BY TANK

1 nevery certify that, as the result of reading of the level gauge for the subject cargo and calculation of each tank on board the M.V "OSPREY ARROW". the following quantities of Liquid Pitch were found to be loaded into the tanks as shown below: -

No. 1 Tank

: 4,525,685 M/Tons

No. 2 Tank

44.043 M/Tons

MARINE SURVEYORS & SWORN RS' CORPORATION(KOMSA)

Surveyor,

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned,

Koppers003975

#### **FAX TRANSMITTAL**

KOPPERS INDUSTRIES, INC. 7540 NW SAINT HELENS RD.

TELEPHONE: 503-286-3681

PORTLAND, OR 97210-3663

503-285-2831

TO: J. Dietz, W. Plovic, D. Evans, J. Kunkle

DATE: 5/2/00

FROM: Amos Kamerer

TOTAL # OF PAGES: 3

SUBJECT: Kosco Vessel Receipt

Attached please find a copy of the Surveyor's report on last week's receipt. I thought that you would find the number's interesting.

Total amount invoiced – KII & Intalco	7,583.184 MT			
Less amount credited KII from Kosco – density issue	39.878 MT			
Less amount credited Intalco from Kosco - " "	26.103 MT			
Revised total amount invoiced	7,517.203 MT			
Surveyor's report – amount in vessel tanks	7,512.79 MT			
Surveyor's report – amount received in KII tanks	7,516.04 MT			

The differences between these various totals is what I would consider to be in the acceptable range, mainly because from vessel to vessel we have no way of measuring the change in the amount of pitch that remains in the pipeline, after each discharge. Plus, the difference between the revised total amount invoiced and the survey of our tanks, was only 1.163 MT.

John, we will have to discuss how you want us to make the adjustment to our inventory, regarding the Kosco credits, remembering that that first vessel was in 1999's business.

Amos

IF THIS TRANSMITTAL IS RECEIVED IN ERROR, PLEASE ADVISE.



Serving the Ports of Alaska. The Pacific Northwest. Northern California and the Mississippi River System

Capt. Peter J. Morrison MAIMS

Peter Brauns Bs. NS.

8221 Hazel Dell Avenue, Suite 201

Vancouver, WA 98665 U.S.A.

Office & 24 Hour: (503) 285-2246

Office: (360) 574-7463 Fax: (360) 574-7284

email: survey@seaportmarine.com Cellular Phone: (503) 519-7347 email: pim@seaportmarine.com Cellular Phone: (503) 519-7346 email: pb@seaportmarine.com

#### **CERTIFICATE OF WEIGHT** SHORE TANKS

Vessel:

Osprey Arrow

Vovage No.

124

Request of:

Koppers Industries

Location:

Koppers Industries

Commodity:

Liquid Pencil Pitch

Port:

Port of Portland

Shore Tank

200

65

6R

Shore Talik:	200		00		00		
	Initial	Final	Initial	Final	Initial	Final	
Date	27-Apr	28-Арг	27-Apr	28-Apr	27-Apr	27-Jan	
Time	3:00	3:30	3:00	3:30	3:00	3:00	
Temperature (F°)	388	384	368	380	388	388	
Density	1.22576	1.226774	1.230827	1.227787	1.22576	1.22576	
Gauge Height	4.7	42.5	6.3	17.40	5	4.7	
Gallons	158759	1539404	135225	373083	39515	39515	
Cubic Meters	600.97	5827.28	511.88	1412.27	149.58	149.58	
Metric Tons	736.64	7148.75	630.04	1733.97	183.35	183.35	
Total Received:		6412.11 M/Tons		1103.93 M/Tons		0.00 M/Tons	

Total Cargo Received by Shore Tanks:

7516.04 M/Tons

σ.



Serving the Ports of Alaska, The Pacific Northwest, Northern California and the Mississippi River System

Capt. Peter J. Morrison MAIMS

Peter Brauns Bs. NS.

## CERTIFICATE OF WEIGHT VESSEL TANKS

Vessel: Osprey Arrow 124 Voyage No. Koppers Industries Request of: Koppers Industries Location: Liquid Pencil Pitch Commodity: Port of Portland Port: Vessel Tank: 1 2 Date 27-Apr 28-Apr 27-Apr 28-Apr 3:20 Time 4:45 4:45 3:20 Temperature (F°) 200.7 200.4 200.4 200.4 Density 1.224428 1.224565 1.224565 1.224565 3.978 3.979 17.123 Ullage 17.123 **Cubic Meters** 3254.84 0.00 2880.59 0.00 Metric Tons 3985.32 0.00 3527.47 0.00 3985.32 M/Tons **Total Discharged** 3527.47 M/Tons

Total Cargo Received by Vessel Tanks:

7512.79 M/Tons

8221 Hazel Dell Avenue, Suite 201

Vancouver, WA 98665 U.S.A.

Office & 24 Hour: (503) 285-2246

Office: (360) 574-7463

Fax: (360) 574-7284

email: survey@seaportmarine.com Cellular Phone: (503) 519-7347 email: pjm@seaportmarine.com Cellular Phone: (503) 519-7346 email: pb@seaportmarine.com Vendor Name

G/L	Detail	Subdetail	Location	Department	Tax	Emp No.	Move No./ PO No.	Amount	Inv No.	Date
5050	4		9270		0992				4229	4/3/00
				<del> </del>						<u> </u>
				<del>  </del>	<del></del>				Vendor Numbe	ar.
						1		•	Vendor Name	•
				Gross Amount					Terms	Due
				Discount		_			Code	Date
uthoriza	tion			Net						
			_	-				Division	Month	Audit No.
								483	4	

Wire Transfer 5/18/00

Daewoo Corporation

AMOS/ERIN

Note revised amount. Please change your receiver accordingly

# **COMMERCIAL INVOICE**

HVC0000003307

1)8hlpph/Exporter DARWOO CORPORATION	÷	6)No. 6 date 000000		APR	. 03, Z000	
C.P.O. BOX 2810 SECUL KOREA		9)No. & date of L/C				
2)For Account & Risk of Messrs. KOPPERS INDUSTRIES,		10)L/C lesui	ng pank			
C/O PORT OF PORTLAND PORTLAND CREGON, U.S.A		11)Remerks: • P/O NO.CMO-1670-2 DATED JAN 07, 2000				
I)Notily Party  IODPERS INDUSTRIES,  C/O PORT OF PORTLAN			OR DEFORE MAY 18		PAID	
PORTLAND CREGON, U.	<b>8. 8</b>					
4)Port of Leading RWANGYANG , KOREA	6)Final destination PORTLAND, OREGON, U.S.J					
Becomer Osfrey Arrow	7)Salling on / ebout APR . 03 , 2000					
12)Marks and numbers of PKGS	13)Description of goods		14)Cuartity/Linit	16)Unit-price	19)Amount	

M/M IN BULK

#### FOB KWANGYANG KOREA

LIQUID PITCH 4,583.184MT

\* DIFFERENCE BY CARGO '99.12.8 (39.367MT)

'00. 2.6 (39.640MT)

'00. 4.3 (39.878MT)

\* TOTAL ADJUSTED AMOUNT TO BE REMITTED

- \* Purchase order Mo.: CMO-1670-2 Dated 7 January 2000
- INVOICE NO. : 0000004229 DATED APR. 03, 2000
- \* REVISED PAYMENT INSTRUCTION
  PLEASE PAY THIS ADJUSTED INVOICE AMOUNT OF USD1,080,360.35 BY
  TELEGRAPHIC TRANSFER(T/T) TO ACCOUNT NO. 361-81-013944 OF SHINHAN
  BANK, SEODREMUN BRANCH, SECUL, KOREA IN FAVOUR OF KOREA STEEL
  CHEMICAL CO., LTD AND PLEASE INDICATE OUR REFERENCE NO.0000004229
  WHEN YOU REMIT THIS INVOICE AMOUNT

17) C.P.O 2816 SECUL, KOREA CABLE: DAEWOO SECUL TELEX: DAEWOO K23341/4,K24286

TELEPHONE, 750 2444

TELEPHONE: 769-2114

16) Signed by

DAEWOO CORPORATION

04-27 18:26 THU FROM:KOSCO TAR

KOREA STEEL CHEMICAL CO., LTD.

12, 13TH FLOOR, SAMDO BLDG., 1-170, SUNHWA-DONG, CHUNG-GU, SEOUL, KOREA TEL: (02) 3705-7000 FAX: (02) 771-0741~8

# ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC.

7540 NW SAINT HELENS ROAD.

PORTLAND, OREGON 97210-3663

TEL: 503 286 3681

FAX: 503 285 2831

ATTN: MR. AMOS S. KAMERER

DATE: FEB. 08, 2000

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS;

► INVOICE NO.

: 0000000815 DATED FEB. 06, 2000

**▶ QUANTITY** 

: 4,657.354MT OF LIQUID PITCH

**►** AMOUNT

► ON BOARD DATE

: FEB. 06, 2000

**▶** DUE DATE

: MAR. 22, 2000

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE MAR. 22, 2000 TO THE BANK AND ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

**▶ VESSEL NAME** 

: M/V "OSPREY ARROW"

FROM KWANGYANG KOREA, TO PORTLAND, OREGON, U. S. A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HEREWITH;

1. BILL OF LADING

2 ORIGINALS + 2 COPIES

2. COMMERCIAL INVOICE

3 ORIGINALS

3. COUSTOMS INVOICE

3 ORIGINALS

4. CERTIFICATE OF ORIGIN

1 ORIGINAL + 1 COPY

5. CERTIFICATE OF ANALYSIS

3 ORIGINALS

6. CERTIFICATE OF WEIGHT

3 ORIGINALS

7. CERTIFICATE OF VESSEL CLEANLINSS

3 ORIGINALS

BEST REGARDS,

J. W. LEE

**GENERAL MANAGER** 

KOREA STEEL CHEMICAL CO., LTD



We acquired ISO 9002 and ISO 14001 certification

ODE NAME: "CHEMTANKWAYBILL 85" Shipper		NON-NEGOTIABLE	CTWB No.
DAEWOO CORPORATION		CHEMICAL TANK	1
C.P.O. BOX 2810 SEOUL KOREA		WAYBILL	Reference No.
· .			
•			
onsignee (not to order)			
TO ORDER	•		
otify address			
KOPPERS INDUSTRIES, INC.			
C/O PORT OF PORTLAND PORTLAND, OREGON, U.S.A			
		AN AUTODINA	
		SICHI O	SASSIVALLA SASSIVAL SASSIVAL SASSIVAL SASSIVAL SASSIVAL SASSIVAL SASSIVAL SAS
essel Port of loading	TOTAL NO MODEL		
OSPREY ARROW V.123 KWAN	IGYANG, KOREA		
PORTLAND, OREGON, U.S.A			
Description of cargo	-		Weight (in metric tons)
		4,65	7.354 M/T
N/M IN BULK LIQUID PI	TCH		
* PURCHA	SE ORDER NO. : O	M0-1670-2	
" EDEICUT	DAVADIE ACDEI	R CHARTER PARTY "	
TREIGHT	TATABLE ASTE	CHARLERIANTI	
		0	N BOARD DATE :
		F	EB.06, 2000
			,
,			
	Particulars declared	I by the Shipper	
	Tarriodiars deciared		
Issued pursuant to Charter Party indicated hereunder	ration in appare weight, volume,	ent good order and condition quality and value unknown,	above, according to Shipper's declar on – unless otherwise stated herein for delivery at the port of discharge of
	The cargo shipp	as the Vessel may safely g ed under this Waybill will be	delivered to the Party named as Cor
Charter Party (Code name, place and	signee or its auth mentary formalit	horised agent, on productio ies. The Carrier to exercise o	n of proof of identity without any docu lue care ensuring that delivery is mad
date of issue)	to the proper par	rty. However, in case of inco s due to fault or neglect on	rrect delivery, no responsibility will b
	1	NS OF CARRIAGE SEE OVE	•
Freight payable in accordance therewith.	Freight payable at	Place and date	e of issue
	•		OREA – FEB.07, 2000

Printed and sold by
Fr. G. Knudtzons Bogtrykkeri A/S, 55 Toldbodgade, DK-1253 Copenhagen K,
by authority of The Baltic and International Maritime Council (BIMCO),
Copenhagen, Copyright.

BARWIL HYOP WOON AGENCIES LTD.
AS AGENTS FOR AND ON BEHALF OF
MASTER/OWNER OF SAID VESSEL

Signature

#### NON-NEGOTIABLE CHEMICAL TANK WAYBILL

**CODE NAME: "CHEMTANKWAYBILL 85"** 

## RECOMMENDED

by
BIMCO (The Baltic and International Maritime Council)
EPCA (The European Petrochemical Association)
ECCTO (European Coastal Chemical Tanker Owners)
INTERTANKO (International Association of
Independent Tanker Owners)

#### Conditions of Carriage.

(1) This Waybill, which is not a document of title to the cargo, is subject to the terms and conditions, liberties and exceptions of the Voyage Charter Party dated as overleaf and to the provisions set out below.

#### (2) Paramount Clause

(a) This Waybill is not a bill of lading and no bill of lading will be issued. However, it is agreed that the Hague Rules contained in the International Convention for the Unification of certain rules relating to Bills of Lading, dated Brussels the 25th August 1924 as enacted in the country of shipment shall apply to this Waybill. When no such enactment is in force in the country of shipment, the corresponding legislation of the country of destination shall apply, but in respect of shipments to which no such enactments are compulsorily applicable, the terms of the said Convention shall apply in exactly the same way.

#### (b) Trades where Hague-Visby Rules apply.

In trades where the international Brussels Convention 1924 as amended by the Protocol signed at Brussels on February 23rd 1968 – the Hague-Visby Rules – apply compulsorily, the provisions of the respective legislation shall also apply to this Waybill.

- (c) The Carrier shall in no case be responsible for loss of or damage to cargo howsoever arising prior to loading into and after discharge from the Vessel or while the goods are in the charge of another Carrier nor in respect of deck cargo.
- (d) It is agreed that whenever the Brussels Convention and the Brussels Protocol or statutes incorporating same use the words "Bill of Lading" they shall be read and interpreted as meaning "Waybill".

#### (3) General Average

General Average shall be adjusted, stated and settled according to York-Antwerp Rules 1974 or any modification thereof at the place agreed in the Charter Party.

Cargo's contribution to General Average shall be paid to the Carrier even when such average is the result of a fault, neglect or error of the Master, Pilot or Crew. The Charterers, Shippers and Consignees expressly renounce the Netherlands Commercial Code, Art. 700, and the Belgium Commercial Code, Part II, Art. 148.

If the adjustment of General Average or the liability for any collision in which the Vessel is involved while performing the carriage under this contract falls to be determined in accordance with the law and practice of the United States of America, the following clauses shall apply:

#### New Jason Clause.

In the event of accident, danger, damage or disaster before or after the commencement of the voyage, resulting from any cause whatsoever, whether due to negligence or not, for which or for the consequence of which, the Carrier is not responsible, by Statute, contract or otherwise, the cargo, shippers, consignees or owners of the cargo shall contribute with the Carrier in general average to the payment of any sacrifices, losses or expenses of a general average nature that may be made or incurred and shall pay salvage and special charges incurred in respect of the cargo. If a salving vessel is owned or operated by the Carrier, salvage shall be paid for as fully as if the said salving vessel or vessels belonged to strangers. Such deposit as the Carrier, or his agent, may deem sufficient to cover the estimated contribution of the cargo and any salvage and special charges thereon shall, if required, be made by the cargo, shippers, consignees or owners of the cargo to the Carrier before delivery.

#### Both-to-Blame Collision Clause.

If the Vessel comes into collision with another vessel as a result of the negligence of the other vessel and any act, neglect or default of the Master, Mariner, Pilot or the Servants of the Carrier in the navigation or in the management of the Vessel, the owners of the cargo carried hereunder will indemnify the Carrier against all loss or liability to the other or non-carrying vessel or her owners in so far as such loss or liability represents loss of, or damage to, or any claim whatsoever of the owners of the said cargo, paid or payable by the other or non-carrying vessel or her owners as part of their claim against the carrying vessel or the Carrier.

The foregoing provisions shall also apply where the owners, operators or those in charge of any vessel or vessels or objects other than, or in addition to, the colliding vessels or objects are at fault in respect of a collision or contact.

For particulars of cargo, freight, destination, etc., see overleaf.

Authoritied Signature

MOITAROPHOD COWEAG

CONFIDENTIAL Koppers003983

# **COMMERCIAL INVOICE**

TC0000001146

)Shipper/Exporter DAEWOO CORPORATION		8)No. & date of invoice 0000000815 FEB. 06, 2000					
C.P.O. BOX 2810 SEG	C.P.O. BOX 2810 SEOUL KOREA		9)No. & date of L/C				
2)For Account & Risk of Messrs.  KOPPERS INDUSTRIES, INC.  C/O PORT OF PORTLAND  PORTLAND OREGON, U.S.A		10)L/C issuing bank  11)Remarks:     * P/O NO.OMO-1670-2 DATED JAN. 07, 2000					
						3)Notify Party  KOPPERS INDUSTRIES  C/O PORT OF PORTLAN  PORTLAND OREGON, U	4ID
4)Port of Loading KWANGYANG, KOREA	5)Final destination PORTLAND, OREGON, U.S.A	- ORIGIN					
6)Carrier OSPREY ARROW	7)Sailing on / about FEB. 06, 2000						
12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit	15)Unit-price 16)Amount				

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

4,657.354M/T

\* INVOICE NO. : 0000000815 DATED FEB. 06, 2000

\* PAYMENT INSTRUCTION
PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
TO ACCOUNT NO. 361-81-100332 OF SHIN HAN BANK, SEODAEMUN BRANCH,
SEOUL, KOREA IN FAVOUR OF DAEWOO CORP SEOUL (HVC SECTION) AND

SEOUL, KOREA IN FAVOUR OF DAEWOO CORP SEOUL (HVC SECTION) AND PLEASE INDICATE OUR REFERENCE NO. 0000000815 WHEN YOU REMIT

THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA CABLE: DAEWOO SEOUL TELEX: DAEWOO K23341/4,K24295 TELEPHONE: 759-2114 18) Signed by

DAEWOO CORPORATION



DEPARTMENT OF THE TREASURY UNITED STATES CUSTOMS SERVICE 19 U. S. C. 1481, 1482, 1484

# SPECIAL CUSTOMS INVOICE

(Use separate invoice for purchased and non-purchased goods.)

Form Approved.

O. M. B. No. 48-R0342

1. SELLER DAEWOO CORPORATION			2. DOCUMENT NR. *		3, INVOICE NR. AND DATE * 0000000815		
C.P.O. BOX 2810 SE	C.P.O. BOX 2810 SEOUL KOREA			ES *	FEB. 06, 2000	)	
			•				
5. CONSIGNEE	& BUVED (if	other than consid	onee)				
3. 00113101122			ROPPERS IN				
TO ORDER			C/O PORT (				
			7. ORIGIN OF	GOODS		· · · · · · · · · · · · · · · · · · ·	
8. NOTIFY PARTY *		•		BLIC OF KC	IENT, AND DISCOU		
KOPPERS INDUSTRIE	S INIC		9. IERMS OF	SALE, PATM	TENT, AND DISCOU	IN I	
C/O PORT OF PORT			-FORK	MANGVAN	IG, KOREA		
PORTLAND OREGO			1.0.0. (	/// (( <b>(</b>	IO, NONLA		
	1		T/T DENA	TTANCE 45	DAVE AFTER B	// DATE	
10. ADDITIONAL TRANSF	PORTATION INF ANGYANG,		* 1/1 13 [[V]]	ITANCE 40	DAYS AFTER B	/LDAIE	
		REGON, U.S.A					
	PREY ARROV	N	AL CURRENCY HO		C	The part control	
SAILING ON : FEB	. 06, 2000		11, CURRENCY US	EU	12, EXCH. RATE (if fixed or agreed)	13, DATE ORDER ACCEPTED	
14. MARKS AND NUMBERS ON	15, NUMBER OF	16, FULL DESCRIP		17. QUANTITY	UNIT PRICE	20 INVOICE	
SHIPPING PACKAGES	PACKAGES	OF GOODS	i	GOANTIT	MARKET INVOICE	TOTALS	
			4,	657.354M/	s		
			•				
N/M IN	LI	QUID PITCH					
BULK	- DI IDO	   CHASE ORDER NO. : OM	0 1470 0	!			
	- FORC	PHASE ORDER NO OIV	0-10/0-2				
///////////////////////////////////////	[11111111111111111111111111111111111111	///////////////////////////////////////	7//////////////////////////////////////	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	(/////////////////////////////////////	<b>/</b> }	
					·		
					Ì	Ì	
		furnishing goods or services to the sell			22. PACKING COSTS		
tools, engineering work	····	not included in the invoice price, check on OF SELLER/SHIPPER(OR AGE	<u></u>	below.	23.OCEAN OR		
1 declare :					INTERNATIONAL FREIGHT		
If there are any to bounties allowed up	on the exportation	(B) checked box(B) and have	•		24. DOMESTIC FREIGHT CHARGES	.	
of goods, I have chitemized separately	below.	I would be willing to rec	eive.		25. INSURANCE		
I further declare that there is differing from this one (unless	otherwise describe	(C) SIGNATURE OF S	ELLER/SHIPPER (	OR AGENT):	COSTS		
below) and that all statements invoice and declaration are tru	e and correct.	7 DAEWOO C	ORPORAT		(Specify Below)		
29. THIS SPACE FOR CO	ONTINUING ANS	SWERS	7				
		The same of the same of	6			•	
		A	orized Signat	ijre			

THIS FORM OF INVOICE REQUIRED GENERALLY IF RATE OF DUTY BASED UPON OR REQUIATED BY VALUE OF GOODS AND PURCHASE PRICE OR VALUE OF SHIPMENT EXCEEDS \$500. OTHERWISE USE COMMERCIAL INVOICE

\*Not necessary for U. S. Customs purposes.

Customs Form 5515 (12-20-76)

1. Seller

2. Consignee

TO ORDER

DAEWOO CORPORATION

C.P.O. BOX 2810 SEOUL KOREA

**ORIGINAL** 

# CERTIFICATE OF ORIGIN

issued by

THE KOREA CHAMBER OF COMMERCE & INDUSTRY

Seoul, Republic of Korea

원 산 지 증 명 서

대한상공회의소

4. Buyer (if other than consignee)

KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A

3. Particulars of Transport (where required)

FROM : KWANGYANG, KOREA

\* TO : PORTLAND, OREGON, U.S.A

\* SAILING DATE:

FEB. 06, 2000

\* VESSEL NAME :

OSPREY ARROW

5. Country of Origin

The Republic of Korea

6. Invoice Number and Date

0000000815

FEB. 06, 2000

7. Shipping Marks

8. Number and Kind of Packages; Description of Goods

9. Quantity.

Gross Weight or Measurement

N/M IN BULK

4,657.354M/T (QUANTITY)

LIQUID PITCH

\* PURCHASE ORDER NO. : OM0-1670-2

\* INVOICE NO. : 0000000815 DATED FEB. 06, 2000

10. Other Information

The Korea Chamber of Commerce & Industry hereby certifies, on the basis of relevant invoice and other documents, that the above mentioned goods originate in the country shown in column 5.



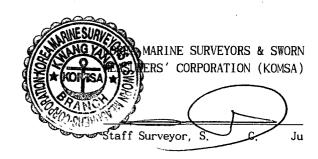
THE KOREA CHAMBER OF COMMERCE & INDUSTRY



(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:				TELEPHONE
"KOMSA" SEOUL			SEOUL 754-8106-8	3 YOSU 62-4589
C. P. O. BOX 3121 SEOUL			PUSAN 44-5786	62-6599
TLX. NO. KOMSA K24945			ULSAN 72-7627	DONGHAE <b>33-1887</b>
FAX. <b>754</b> - <b>8109</b>	DUPLICA	TE	INCHON 763-9501-	
	Charles and an area		MOKPO 43-1205	KWANGYANG 791-3950
			POHANG 72-3942	KUNSAN 2-9350
Report No. <u>G-000206-02</u>	lssued at:_	Kwangyang,	Korea	Date: <u>Feb. 6, 2000</u>
	TANK DRY CER	TIFICATE		
Applicant: Messrs. <u>DAEWOO CORP</u>	ORATION SEOUL, K	OREA		
Name of Vessel:	ROW "	Voy.	No. <u>123</u>	
Place & Date of Survey: Feb. 5,	2000 at the ste	el scrap wha	rf of POSCO, Kwar	ngyang, Korea
THIS IS TO CERTIFY T SURVEYORS & SWORN MEASURERS		_	=	
Nos.: No.1 TANK & NO.2 TANK		<del>-</del>		
and found same to be empty, dry, s	uitable and read	y for loadin	g <u>Liquid Pitch</u> i	n bulk
Heating coils in the		_		tested
	Previous	Cargo : Liqu	id Pitch	
	·			

This inspection was made and certificate is given without prejudice to any question of rights and/or liabilities on any persons interested or concerned.



CONFIDENTIAL Koppers003987

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

TELEPHONE

"KOMSA" SEOUL

C. P. O. BOX 3121 SEOUL

DUPLICATE

SEOUL 754-8106-8

YOSU

62-4589 62-6599

TLX. NO. KOMSA K24945

PUSAN 44-5786 ULSAN 72-7627

KWANGYANG 791-3950

# **SURVEY REPORT**

(Sampling and Analysis Certificate)

Report No. G-000206-02-A

lssued at: Kwangyang, Korea

Date: Feb. 6, 2000

THIS IS TO CERTIFY THAT we, the undersigned Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang did at the request of Messrs. <u>DAEWOO CORPORATION SEOUL</u>, KOREA

attend at the laboratory in the premises of the manufacturer

in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:

#### DESCRIPTION

Name of Carrier: " OSPREY ARROW "

Commodity

: Liquid Pitch in bulk

Quantity

: 4,657,354 M/Tons

Port from/to

: Kwangyang, Korea to Portland, Oregon, U.S.A

#### SAMPLING/ANALYSIS

The analysis for the above samples was carried out on attendance of the undersigned, the General Marine Surveyor, at the laboratory in the premises of the manufacturer

on\_Feb. 6, 2000 and resulted as follows:

TEST ITEM & UNIT	SPEC.	RESULTS	<u>METHOD</u>
SOFTENING POINT(°C)	108~112	110.5	ASTM D 3104-87
QUINOLINE INSOLUBLE(%)	8~12	10.1	ASTM D 2318-86
TOLUENE INSOLUBLE(%)	28 MIN.	28.2	ASTM D 4072-91
COKING VALUE(%)	55.0 MIN.	59.2	ASTM D 2416-84
DISTILLATION TO 360℃(%)	3.0 MAX.	0.81	ASTM D 20-91
SPECIFIC GRAVITY(g/cm3)	1.31 MIN.	1.321	ASTM D 2320-81
ASH(%)	0.30 MAX.	0.14	ASTM D 2415-66
SODIUM(ppm)	220 MAX.	65	A. A. METHOD
MOISTURE(%)	0.30 MAX.	0.1	ASTM D 95-83
MESOPHASE( $\langle 10 \mu m \rangle$	2.0 MAX.	0.20	ASTM D 4616-91

This report is given without prejudice.

MARINE SURVEYORS & SWORN ERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

TLX, NO, KOMSA K24945

TELEPHONE SEOUL 754-8106-8

DONGHAE

62-4589 YOSU

DUPLICATE

ULSAN 72-7627

33-1887

INCHON 763-9501-2

2474

SURVEY REPORT

MOKPO 43-1205

KWANGYANG 761-3950

(Liquid Gauging of Tankers)

Report No. <u>G-000206-02-B</u>

"KOMSA" SEOUL

FAX. 754 - 8109

DAEWOO CORPORATION SEOUL, KOREA

Applicant:

Gross tonnage:

Name of Vessel:

" OSPREY ARROW "

Port from and to: Kwangyang, Korea to Portland, Oregon, U.S.A

Place & Date of Survey: Feb. 6, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

Description of cargo

Quantity on Invoice/B/L

<u>Density</u>

Date <u>Feb. 6, 2000</u>

Remarks

Liquid Pitch in bulk

4,657.354 M/Tons

1.2348

201 ℃

We hereby certify that the following figures are correct to our best knowledge, based on the Tank Scales provided on board.

Tank No.	Gauging (Ull.)	Corrected (U11.)	Water	App.Volume (K/L)	<u>Тетр</u> (°С)	Density	Net Volume (M/T)
No. 1 No. 2 TOTAL :	2.140 2.150 2 TANKS	2.140 2.150		3, 707, 640 3, 303, 500	201 201	1.2348 1.2348	4,578.194 4,079.160 8,657.354M/T
	Remarks :	=	gures whi	atity were dist	ows:-	4,657.354	M/Tons
			remaino	ler Other B/L .		4,000.000	M/ I ons

THAT IS

FOUR THOUSAND SIX HUNDRED AND FIFTY SEVEN DECIMAL THREE FIVE FIVE (4.657.354)M/TONS

Ship's Draft: Fore 6.700 m

After 7.200 m

Trim 1.500 m by the stern

MARINE SURVEYORS &

MEASURERS 'CORPORATION

Surveyor, S.

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-000206-02-C

Issued at: Kwangyang, Korea

Date: <u>Feb. 6, 2000</u>

# DUPLICATE survey report

( Certificate of Sampling )

THIS IS TO CERTIFY THAT WE, the undersigned surveyor to Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang, Korea, did, at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the tank of manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:-

#### **DESCRIPTION**

Name of Carrier

: " OSPREY ARROW "

Voy. No. : 123

Commodity

: Liquid Pitch in bulk

B/L Quantity

: 4,657.354 M/Tons

Port from/to

: Kwangyang, Korea to Portland, Oregon, U.S.A

#### SAMPLING

Attending at the above mentioned place in company with parties concerned, the undersigned inspected sampling cans furnished by the applicant and found them cleaned and dry and then samples were taken in accordance with sampling method and plugged immediately/tightly by the undersigned surveyor.

COMPONENT

QUANTITY

DISTRIBUTED

BASED ON

3 Cans

One(1) can retained by this corporation.

ISO STANDARD

One(1) can to laboratory for analysis.

f Surveyor,

6257-1980(E)

One(1) can on board a plane for receiver at destination.

ARINE SURVEYORS & SWORN
RS' CORPORATION(KOMSA)

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-000206-02-D

Issued at: Kwangyang, Korea

Date: <u>Feb. 6, 2000</u>

# DUPLICATE

## CERTIFICATE OF CARGO LOADING BY TANK

I hereby certify that, as the result of reading of the level gauge for the subject cargo and calculation of each tank on board the M.V "OSPREY ARROW", the following quantities of Liquid Pitch were found to be loaded into the tanks as shown below:-

No.1 Tank

: 4,578.194 M/Tons

No. 2 Tank

79.160 M/Tons

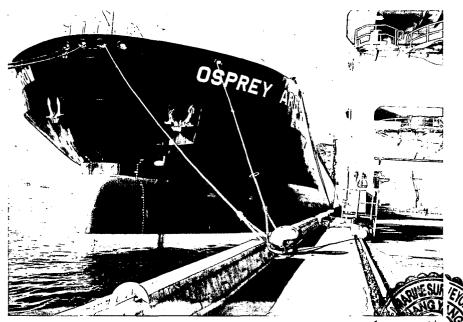
This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.

.

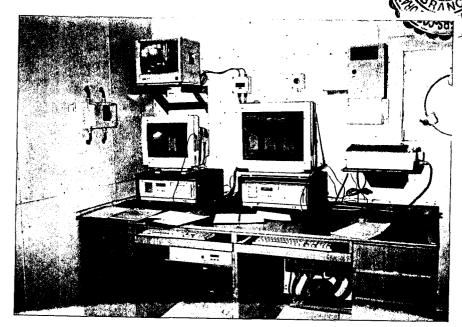
taff Surveyor,

MARINE SURVEYORS & SWORN RERS' CORPORATIO<u>N(KOM</u>SA)

Photo. Page No.1

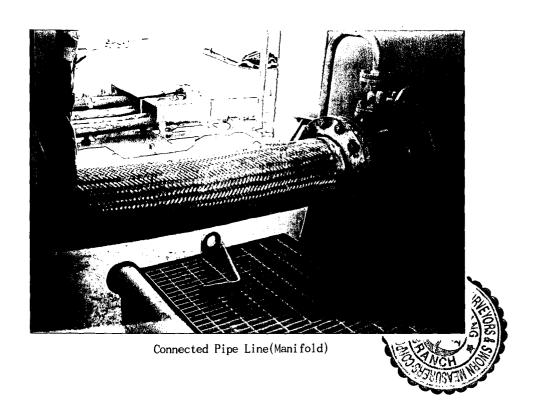


M.V "OSPREY ARROW" was lying afloat moored at the steel scrap wh Kwangyang, Korea for the purpose loading the Liquid Pitch.



Control Room

Photo. Page No. 2





(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:	TELEGRAMS:				TELEPHONE				
"KOMSA" SEOUL			SEOUL 754-8106-8	YOSU	62-4589				
C.P.O.BOX 3121 SEOUL			PUSAN 44-5786		62-6599				
TLX, NO. KOMSA K24945			ULSAN 72-7627	DONGHAE	33-1887				
FAX. 754 - 8109	ORIGINA	II.	INCHON 763-9501-2	2	2474				
	OWYONTAR		MOKPO 43-1205	KWANGYANG	791-3950				
			POHANG 72-3942	KUNSAN	2-9350				
Report No. <u>G-000206-02</u>	lssued at:_	Kwangyang,	<u>Korea</u>	Date: <u>Feb. 6</u>	2000				
	TANK DRY CER	TIFICATE							
A 11 AAA DARWOO OO	DDODATION CPOUL	0004			•				
Applicant: Messrs. DAEWOO CO	RPORATION SECUL, KO	JREA							
Name of Vessel: " OSPREY	ARROW "	Voy.	No. <u>123</u>						
Place & Date of Survey: Feb.	5, 2000 at the stee	el scrap wha	rf of POSCO, Kwang	gyang, Korea					
THE IC TO CEPTIEV	TELATE		. KODEA M	ADINE					
THIS IS TO CERTIFY									
SURVEYORS & SWORN MEASURE	CRS'CORPORATION,	have this d	ate inspected carg	o tank(s)					
Nos.: No.1 TANK & NO.2 TANK									
NOS NO. 1 TANK & NO. 2 TANK				<del></del>					
and found same to be empty, dry	suitable and read	y for loadir	ng Liquid Pitch in	n bulk					
					<del></del>				
Heating coils in th	e following of the	above inspe	ected tank(s) are	tested					
<del>-</del>	steam presure and	_							
	Previous (	Cargo : Liqu	iid Pitch						
This inspection was ma	de and certificate	is given wi	thout prejudice to	any question	n of rights				
and/or liabilities on any pers	ons interested or o	concerned.							
		<b></b>							

ARINE SURVEYORS & SWORN (KOMSA)

Staff Surveyor, S. C. Ju

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

TELEPHONE

"KOMSA" SEOUL

ORIGINAL C. P. O. BOX 3121 SEOUL

SEOUL 754-8106-8

62-4589

PUSAN 44-5786

62-6599

TLX, NO, KOMSA K24945

ULSAN 72-7627

KWANGYANG 791-3950

# **SURVEY REPORT**

(Sampling and Analysis Certificate)

Report No. G-000206-02-A

\_\_\_\_\_lssued at: <u>Kwangyang, Korea</u>

Date: Feb. 6, 2000

THIS IS TO CERTIFY THAT we, the undersigned Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang did at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA

attend at the laboratory in the premises of the manufacturer

in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:

#### DESCRIPTION

Name of Carrier: "OSPREY ARROW"

Commodity

: Liquid Pitch in bulk

Quantity

: 4,657.354 M/Tons

Port from/to

: Kwangyang, Korea to Portland, Oregon, U.S.A

#### SAMPLING/ANALYSIS

The analysis for the above samples was carried out on attendance of the undersigned, the General Marine Surveyor, at the laboratory in the premises of the manufacturer

on Feb. 6, 2000 and resulted as follows:

TEST ITEM & UNIT	SPEC.	RESULTS	<u>METHOD</u>
SOFTENING POINT(℃)	108~112	110.5	ASTM D 3104-87
QUINOLINE INSOLUBLE(%)	8~12	10.1	ASTM D 2318-86
TOLUENE INSOLUBLE(%)	28 MIN.	28. 2	ASTM D 4072-91
COKING VALUE(%)	55.0 MIN.	59.2	ASTM D 2416-84
DISTILLATION TO 360℃(%)	3.0 MAX.	0.81	ASTM D 20-91
SPECIFIC GRAVITY(g/cm3)	1.31 MIN.	1.321	ASTM D 2320-81
ASH(%)	0.30 MAX.	0.14	ASTM D 2415-66
SODIUM(ppm)	220 MAX.	65	A. A. METHOD
MOISTURE(%)	0.30 MAX.	0.1	ASTM D 95-83
MESOPHASE( $\langle 10  \mu  m \rangle$	2.0 MAX.	0.20	ASTM D 4616-91

This report is given without prejudice.

MARINE SURVEYORS & SWORN RS' CORPORATION Surveyor, S.

CONFIDENTIAL Koppers003995

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

TELEPHONE

"KOMSA" SEOUL TLX. NO. KOMSA K24945

FAX. 754 - 8109

ORIGINAL

SEOUL 754-8106-8

YOSU 62-4589

DONGHAE

33-1887

INCHON 763-9501-2

2474

SURVEY REPORT

MOKPO 43-1205

ULSAN 72-7627

KWANGYANG 761-3950

(Liquid Gauging of Tankers)

Report No. <u>G-000206-02-B</u>

DAEWOO CORPORATION SEOUL, KOREA

Applicant: Name of Vessel:

" OSPREY ARROW "

Gross tonnage:

Port from and to: Kwangyang, Korea to Portland, Oregon, U.S.A

Place & Date of Survey: Feb. 6, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

Description of cargo

Quantity on Invoice/B/L

<u>Density</u>

Date Feb. 6, 2000

Remarks

Liquid Pitch in bulk

4,657.354 M/Tons

1.2348

201 ℃

We hereby certify that the following figures are correct to our best knowledge, based on the Tank Scales provided on board.

Tank No.	Gauging (U11.)	Corrected (Ull.)	Water	App, Volume (K/L)	<u>Temp</u> (℃)	<u>Density</u>	Net Volume (M/T)
No. 1 No. 2 TOTAL:	2.140 2.150 2 TANKS	2.140 2,150		3, 707, 640 3, 303, 500	201 201	1.2348 1.2348	4,578.194 4,079,160 8,657.354M/T
	Remarks :	=	gures whi	tity were dist ch are as foll ures er Other B/L .	ows:-	4,657.354	M/Tons

THAT IS FOUR THOUSAND SIX HUNDRED AND FIFTY SEVEN\_DECIMAL THREE FIVE FIVE (4,657.354)M/TONS

Ship's Draft: Fore 6.700 m

After\_ 7.200 m

Trim 1.500 m by the stern

MARINE SURVEYORS & MEASURERS 'CORPORATION

aff Surveyor,

Ju

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. <u>G-000206-02-C</u>

Issued at: Kwangyang, Korea

Date: <u>Feb. 6, 2000</u>

# ORIGINAL SURVEY REPORT

( Certificate of Sampling )

THIS IS TO CERTIFY THAT WE, the undersigned surveyor to Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang, Korea, did, at the request of Messrs.

DAEWOO CORPORATION SEOUL, KOREA attend at the tank of manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:-

#### DESCRIPTION

Name of Carrier

: " OSPREY ARROW "

Voy. No. : 123

Commodity

: Liquid Pitch in bulk

B/L Quantity

: 4,657,354 M/Tons

Port from/to

: Kwangyang, Korea to Portland, Oregon, U.S.A

#### SAMPLING

Attending at the above mentioned place in company with parties concerned, the undersigned inspected sampling cans furnished by the applicant and found them cleaned and dry and then samples were taken in accordance with sampling method and plugged immediately/tightly by the undersigned surveyor.

COMPONENT QUANTITY DISTRIBUTED

BASED ON 3 Cans

One(1) can retained by this corporation.

ISO STANDARD

One(1) can to laboratory for analysis.

taff Surveyor, S.

6257-1980(E)

One(1) can on board a plane for receiver at destination.

MARINE SURVEYORS & SWORN
RS' CORPORATION(KOMSA)

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. <u>G-000206-02-D</u>

Issued at: Kwangyang, Korea

Date: Feb. 6, 2000

# ORIGINAL

# CERTIFICATE OF CARGO LOADING BY TANK

I hereby certify that, as the result of reading of the level gauge for the subject cargo and calculation of each tank on board the M.V "OSPREY ARROW", the following quantities of Liquid Pitch were found to be loaded into the tanks as shown below:-

No.1 Tank

: 4,578.194 M/Tons

No. 2 Tank

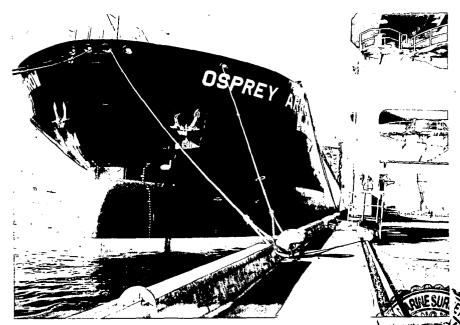
79.160 M/Tons

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any sons interested or concerned.

RINE SURVEYORS & SWORN
S' CORPORATION(KOMSA)

taff Surveyor, S. C.

CONFIDENTIAL Koppers003998

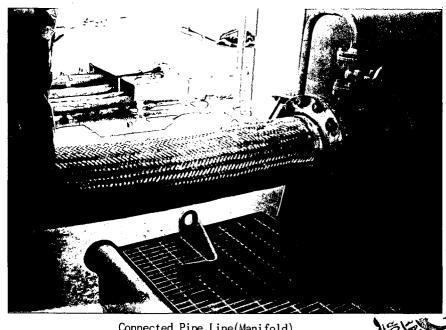


M.V "OSPREY ARROW" was lying afloat moored at the steel scrap Kwangyang, Korea for the purpose loading the Liquid Pitch.



Control Room

Photo. Page No. 2



Connected Pipe Line(Manifold)



# **Internal Memo**

Koppers Inc.

Carbon Materials and Chemicals

Portland, OR

Date:

October 5, 2004

From:

T. J. Turner

To:

Jim Dietz

CC:

Kevin Fitzgerald

Traci Self

John Marcinowski Heather Risher Greg Tomlinson

CM&C Plant Managers CM&C SH&E Coordinators

Subject:

Monthly Highlights Letter - September 2004

## SAFETY/ENVIRONMENTAL

	MONTH	YTD
HOURS WORKED	373	3357
LOST TIME ACCIDENTS	0	0

There were no lost time accidents or OSHA reportable incidents during the month, marking our 78th consecutive month without any reportable incidents. The following training was conducted during the month: Pitch Ship Unloading Procedure. 1 observation and 5 contacts were conducted during the month.

## Submittals due and/or sent for current month:

Requirement	Frequency	Date Due	Date Submitted	Notes
September NPDES DMR	Monthly	10/15/04	10/5//04	

#### Submittals due next three months:

Requirement	Frequency	Date Due	Notes
October NPDES DMR	Monthly	11/15/04	
November NPDES DMR	Monthly	12/15/04	
December NPDES DMR	Monthly	1/15/05	

## SHIPMENTS/PRODUCTION

COMMODITY	<u>UNIT</u>	<u>MONTH</u>	YTD
LIQUID PITCH	TONS	189	278
INTALCO TRANSSHIPMENT	TONS	996	8809
TOTAL LIQUID SHIPPED	TONS	1185	9087

We shipped 34 tank truckloads of liquid pitch to Intalco, during the month, approximately 5 of those loads were Koppers pitch. We also invoiced them for 18 tons of soft pitch, used for SP adjustments. We had surprise RCRA inspection from the Oregon DEQ, they did issue an NOV that will be responding to.

#### **CUSTCOMER CONTACTS**

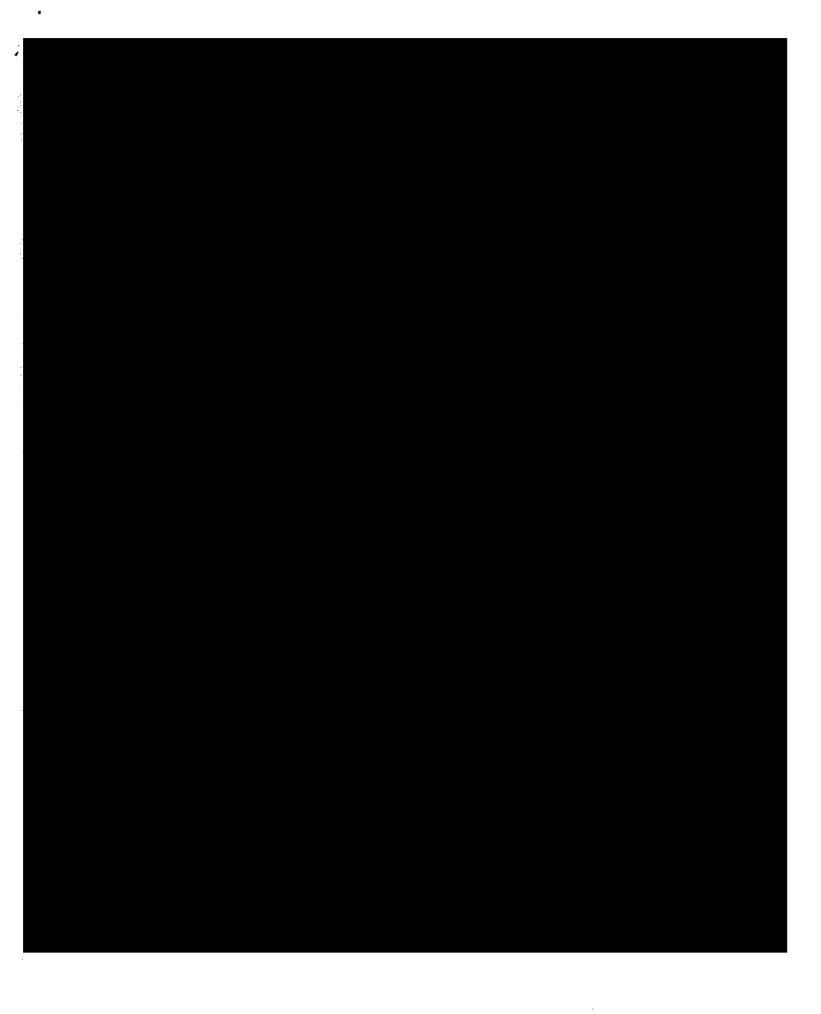
<u>ALCOA-WENATCHEE</u>: Alcoa has announced that they have come to a tentative agreement with their unions representing the Wenatchee smelter and that if the contract changes are ratified, that they will be re-starting the facility. No timing for the re-start was given; however, they did say that by mid year 2005 they would be up 50% production or about 91,000 metric tones per year.

**COLUMBIA FALLS:** Nothing to report.

<u>INTALCO:</u> Lowell Salhus, regarding shipment scheduling for the month. We have been supplying these folks with Koppers pitch the last week or so, while awaiting the arrival of their next cargo from Korea which is due in to the terminal on October 9<sup>th</sup>.

T. J. Turner

October 4, 2004 Page 2 of 2



CONFIDENTIAL Koppers004003